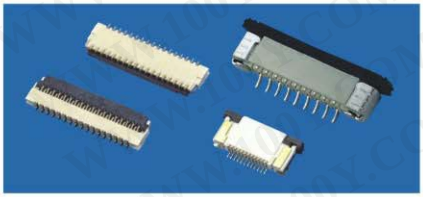
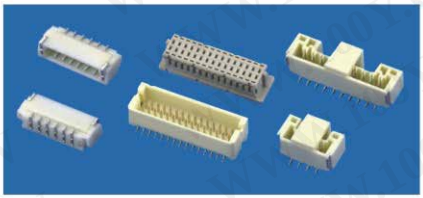
料　号
PART NO.

ZH1.5T-1-NA/NAWD(打K)
ZH1.5T-1-LT/WT-NA



A FPC 扁平电缆连接器系列 FPC Flat Cable Connector Series 01~06



B 条形连接器系列 Bar Connector Series 06~20

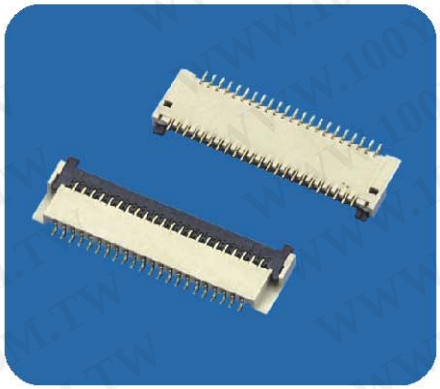
C 端子系列 Terminal Series 21~46

D 塑料件系列 Plastic Parts Series 47~64

E 绝缘端子系列 Insulated Terminal Series 65~68

勝 特 力 材 料 886-3-5753170
胜特力电子(上海) 86-21-34970699
胜特力电子(深圳) 86-755-83298787
Http://www.100y.com.tw

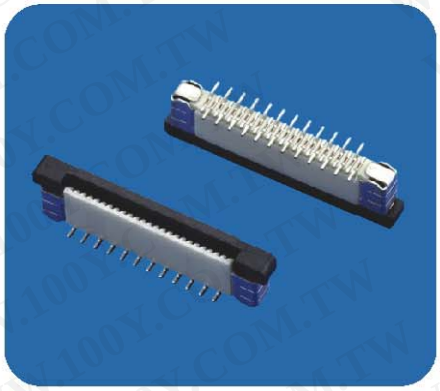
FPC 0.3-H1.0mm



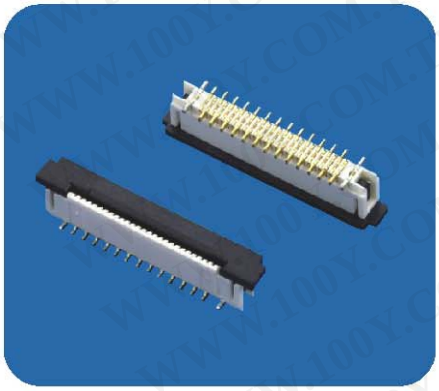
FPC 0.3-H1.3mm

FPC 0.3-H2.5mm

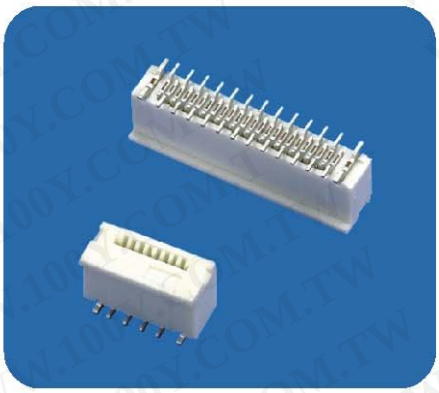
FPC 0.5A-WT



FPC 0.5A-LT



FPC 0.5B1

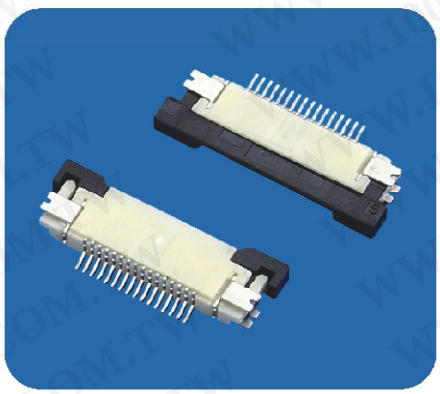


FPC 0.5B2

FPC 0.5C-H1.2mm

FPC 0.5D

FPC 0.5D-WTX(后翻)



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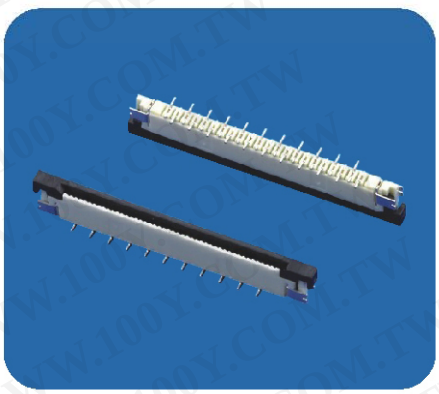
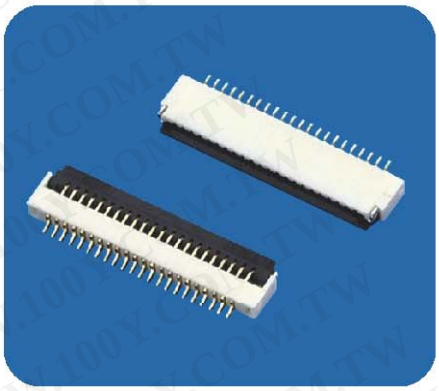


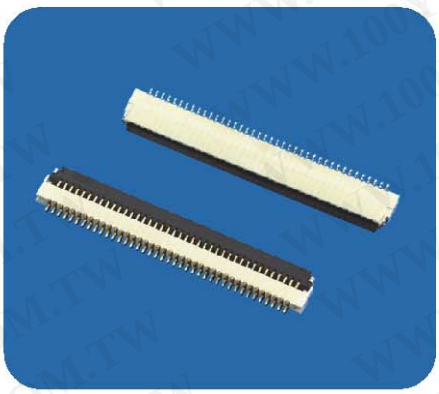
FPC 0.5E-LT

FPC 0.5F-WT

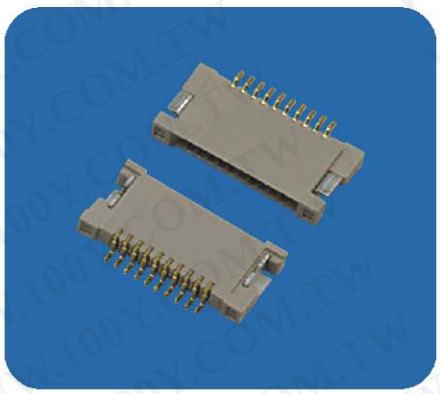
FPC 0.5G



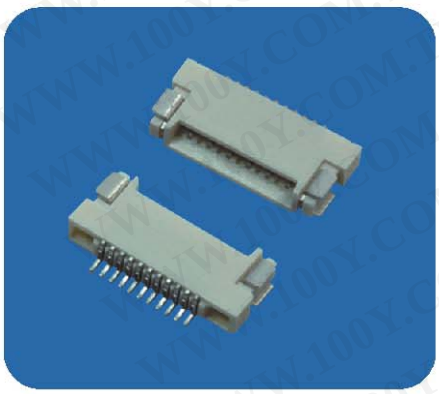
FPC 0.5H-H1.2mm



FPC 0.5I-H0.9mm



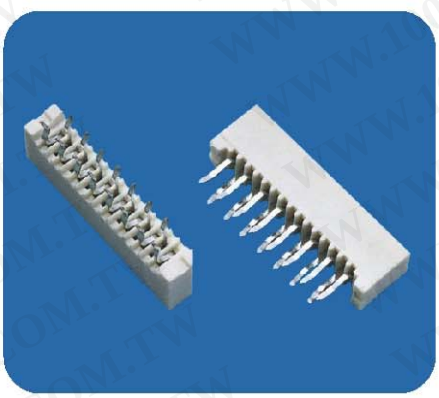
FPC 0.5J-H1.2mm



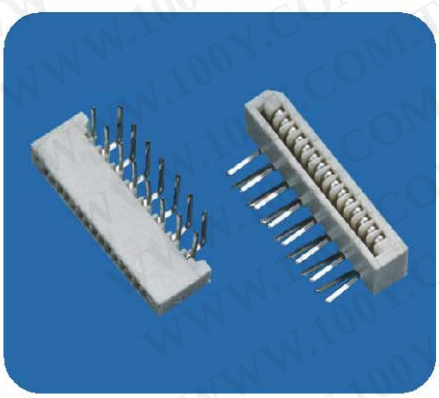
FPC 0.5K-H1.5mm

FPC 0.8A-H2.0mm

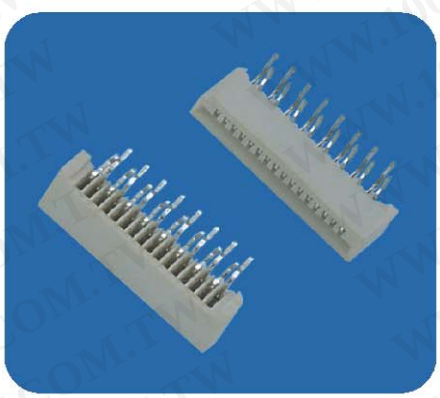
FPC 0.8B-H2.5mm



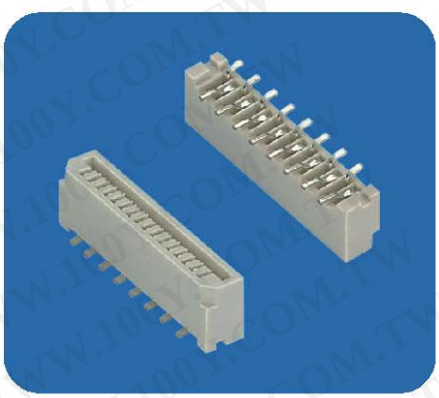
FPC 1.0A-L



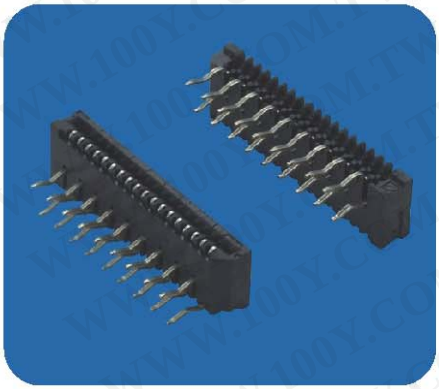
FPC 1.0A-WS



FPC 1.0A-WX



FPC 1.0A-LT



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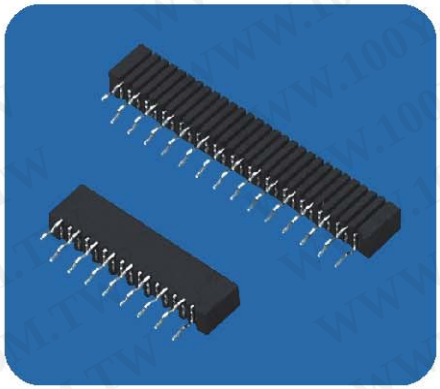
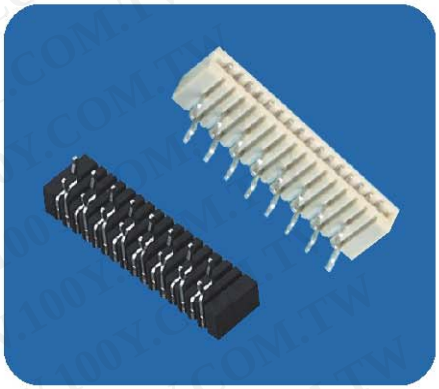
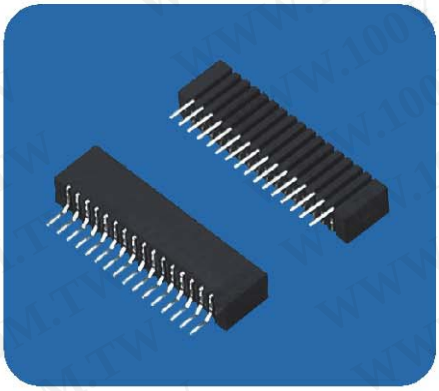


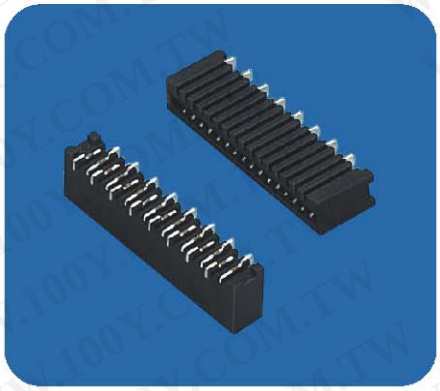
FPC 1.0B-L



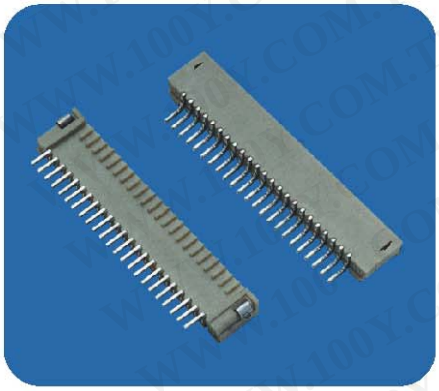
FPC 1.0B-W



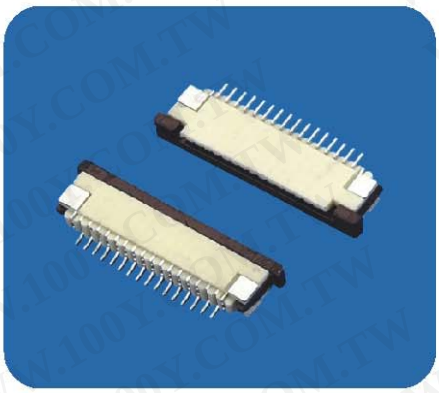
FPC 1.0B-WT



FPC 1.0B-LT



FPC 1.0C-WT



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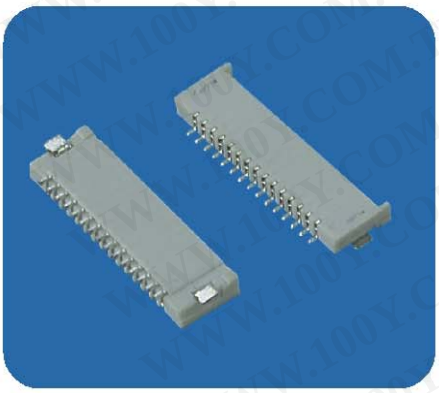
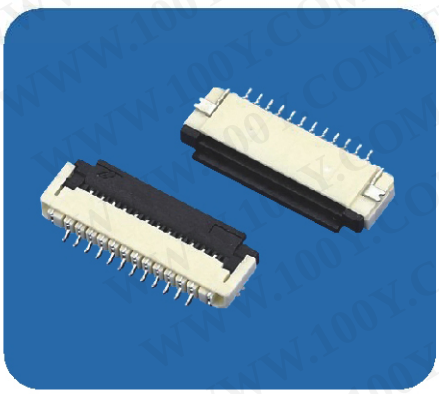


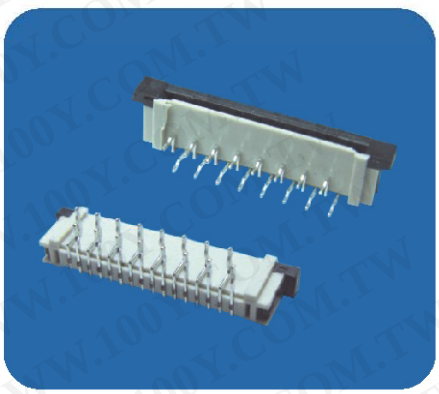
FPC 1.0E-WT

FPC 1.0F-WT

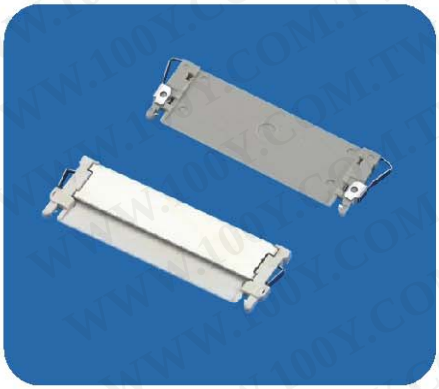


FPC 1.0G-WT

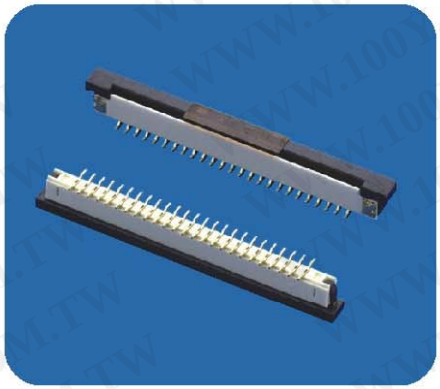
FPC 1.0H-WT



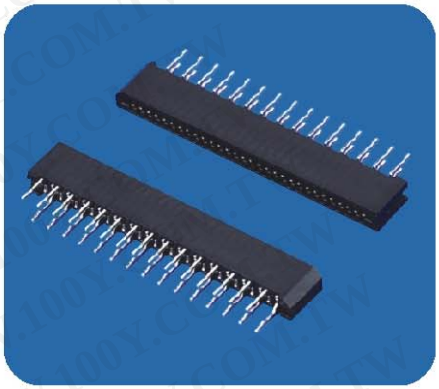
FPC 1.0I-WT



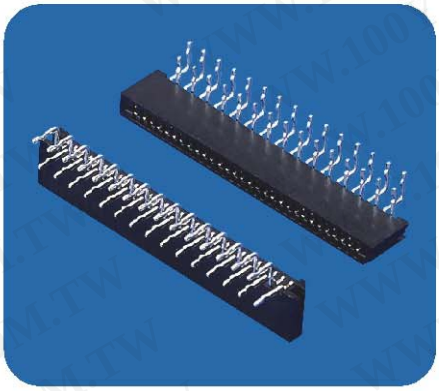
FPC 1.0J



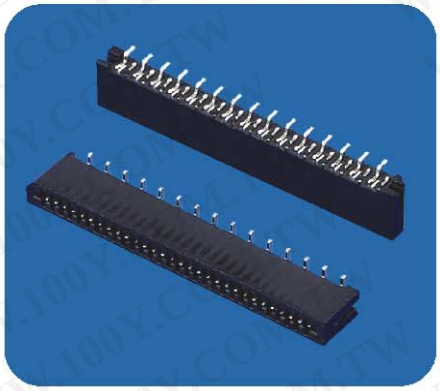
FPC 1.0K-LT



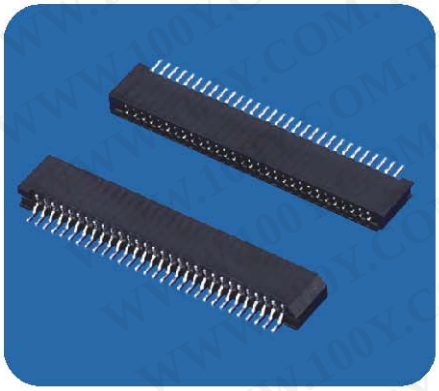
FPC 1.0L-LT



FPC 1.0L-W



FPC 1.0L-L



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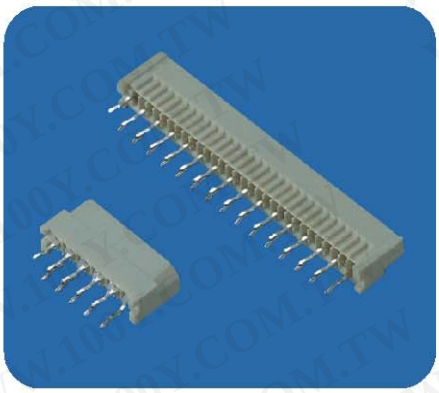

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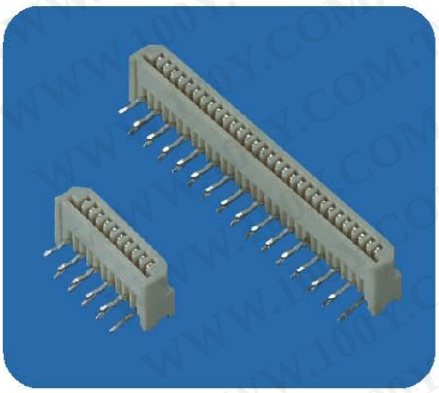
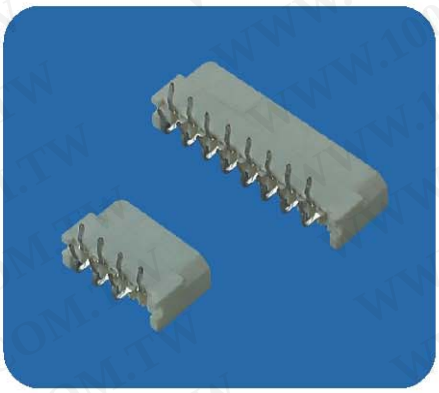


FPC 1.25A-WS



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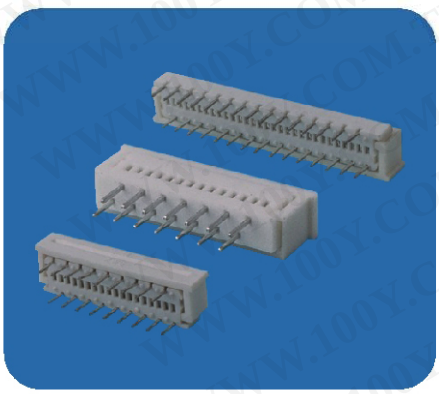
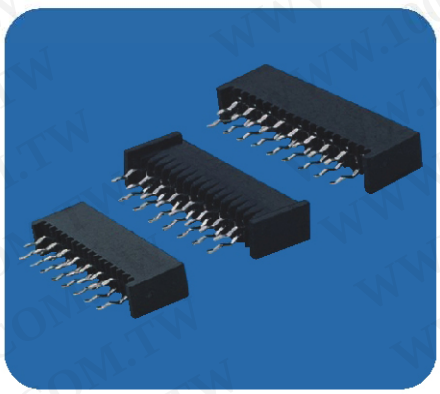
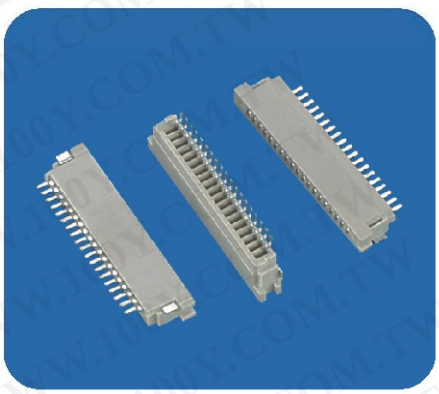


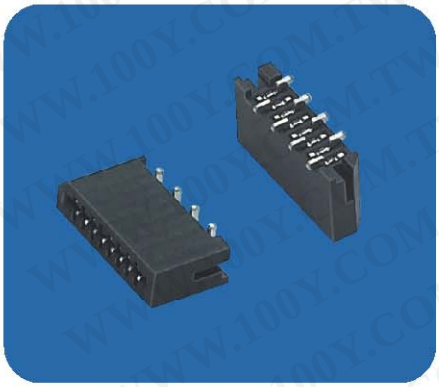
FPC 1.25B-W



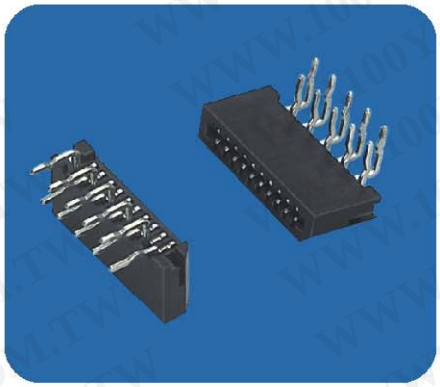
FPC 1.25C-L



FPC 1.25D-WT



FPC 1.25E-LT



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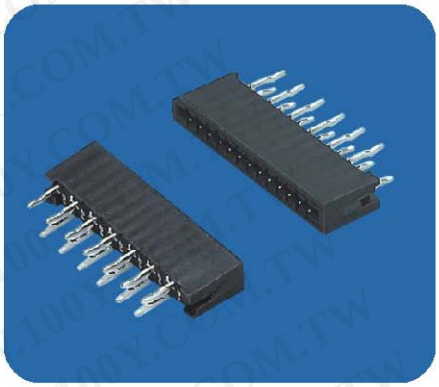
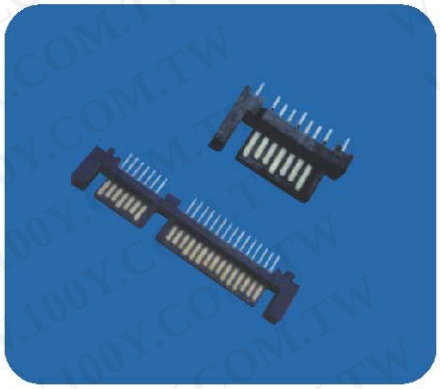


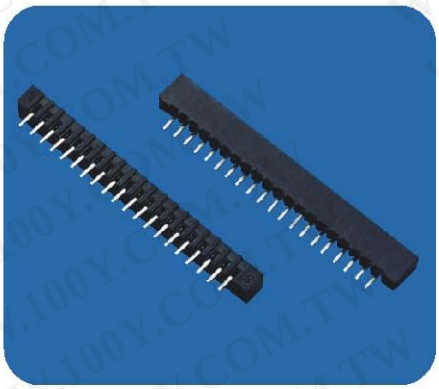
FPC 1.25E-L

FPC 1.25E-WT

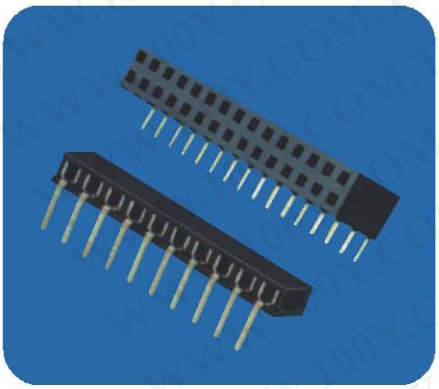


SATA 1.27mm

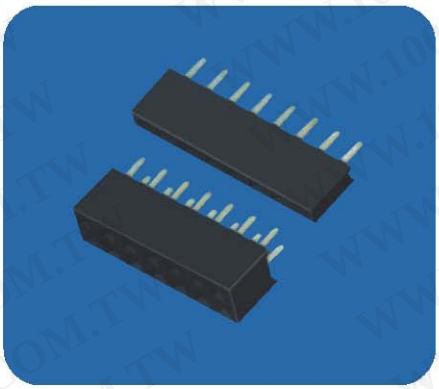
SATA 1.27mm



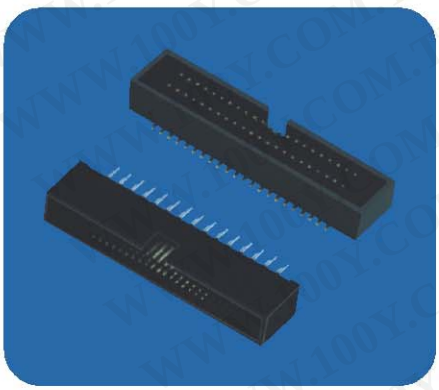
FPC 2.54A



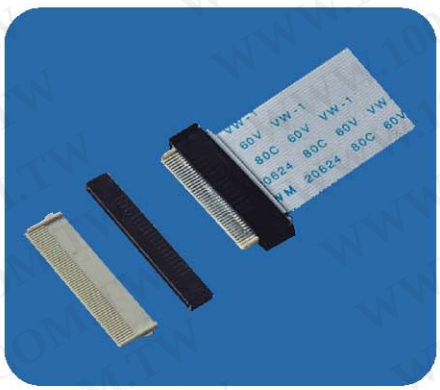
2.0mm 单 / 双排母 90 度



2.54mm 单 / 双排母 180 度



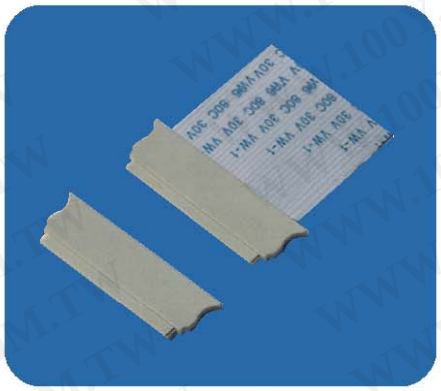
1.27*2.54mm 簡易牛角 SMT/180 度



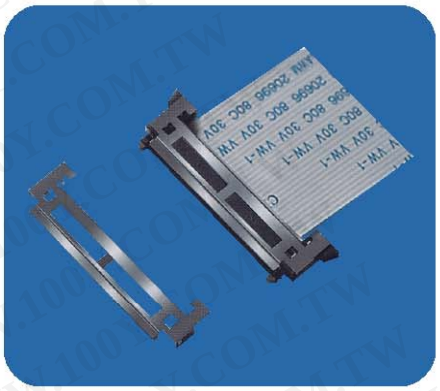
FFC LVDS F05018A/Y

FFC LVDS F05018Y

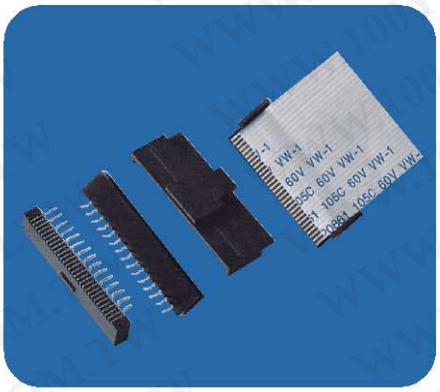
FFC LVDS T10004A



FFC LVDS T10006A



FFC LVDS T10010A

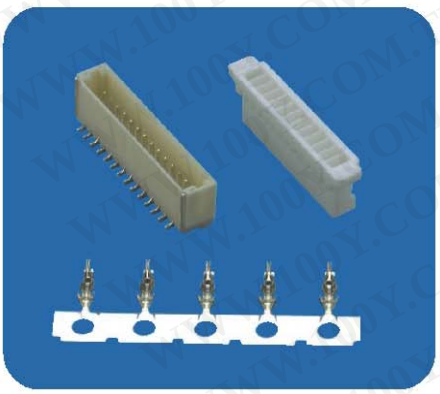


FFC LVDS T10019Y

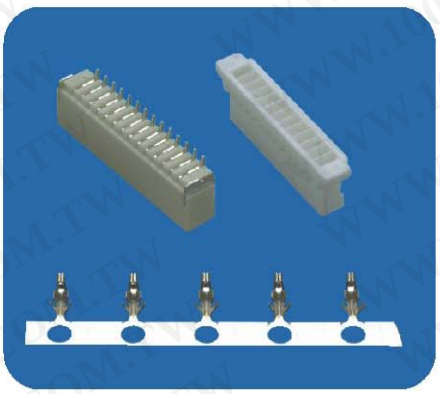
FI-RE 0.5mm

(SUR)0.8T-LT

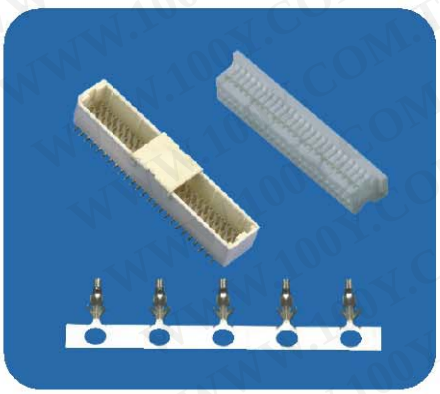
(SUR) 0.8T-WT



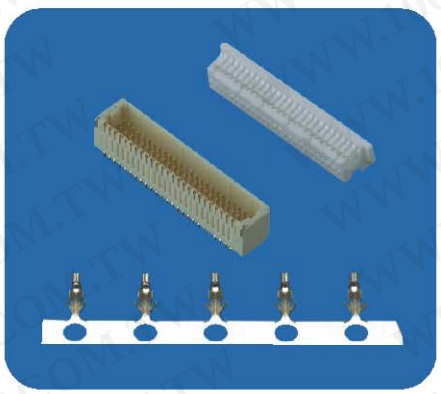
1.0T-1-LT(SH)



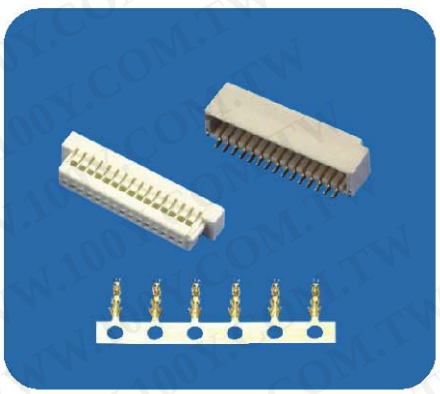
1.0T-1-WT(SH)



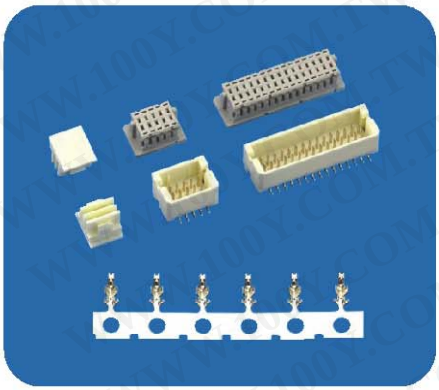
1.0T-1-LT(SHD)



1.0T-1-WT(SHD)

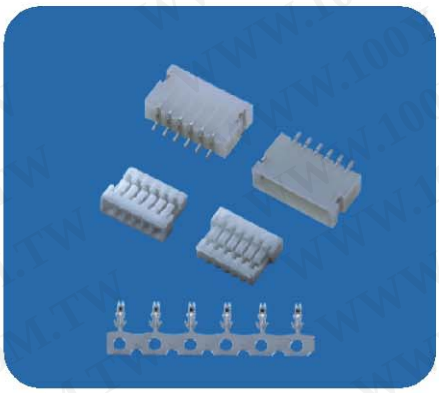


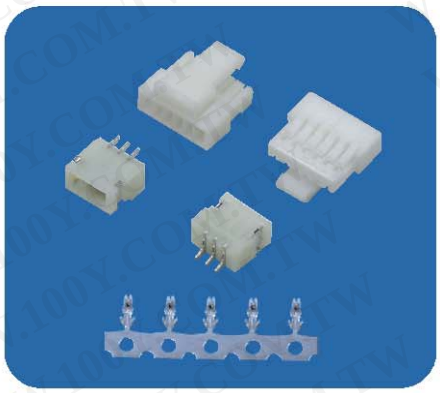
1.0T-2

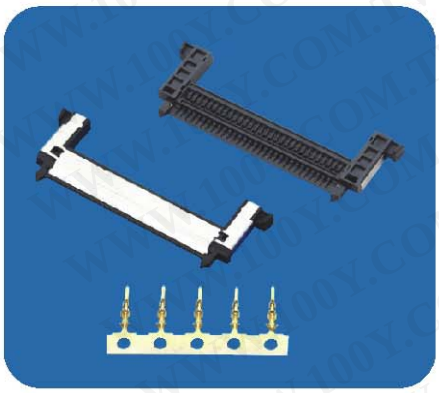

1.0T-3

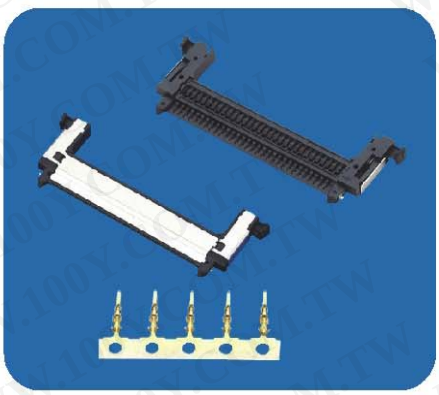
FI-X/H(1.0mm)

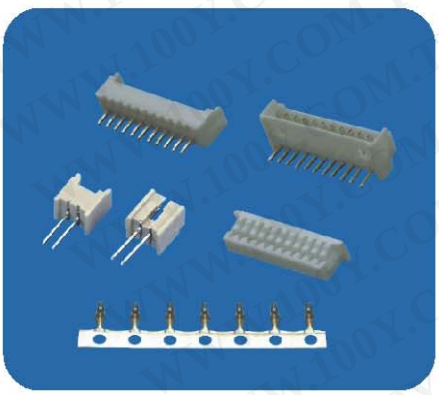
FI-X/HL(1.0mm)

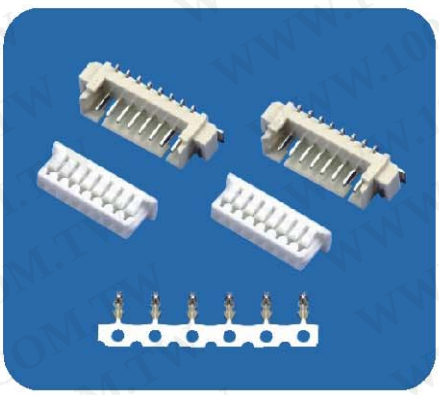

1.0T-4(NH)

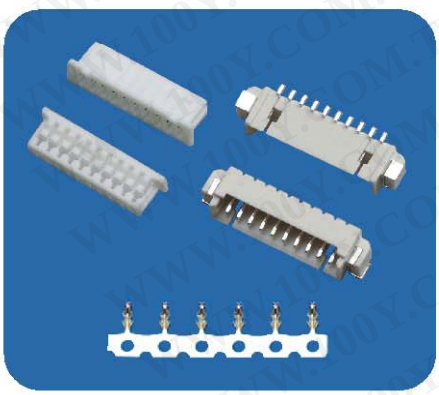

1.0T-4(NHS)

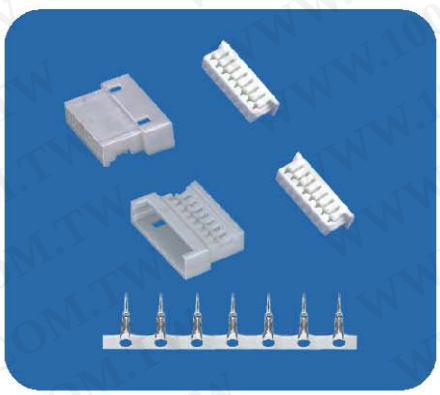

FI-E/H(1.0mm)

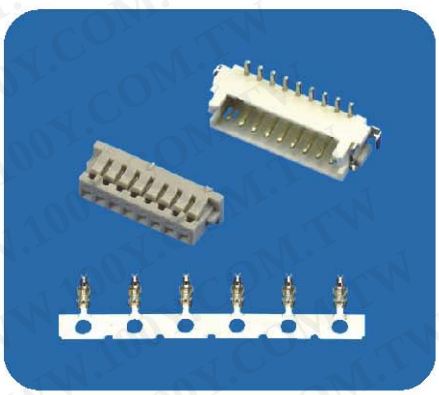

FI-E/HL(1.0mm)

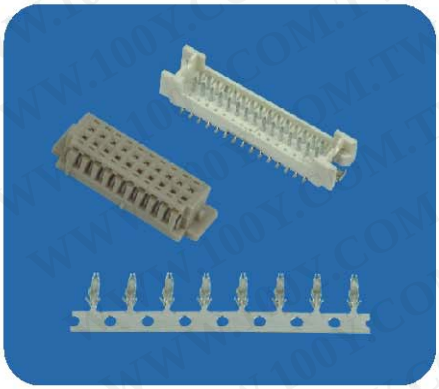

1.25T-1


1.25T-1-LT(SMT)


1.25T-1-WT(SMT)


1.25T-1(对插)


1.25T-2(DF13 单排)



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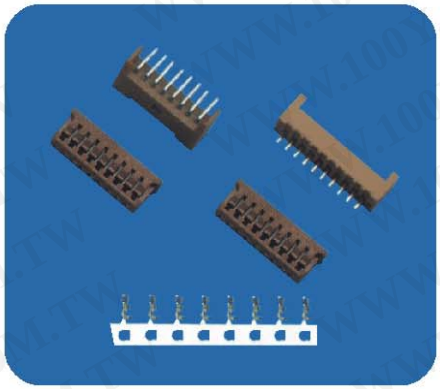
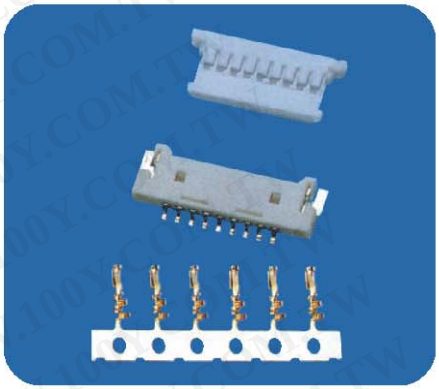
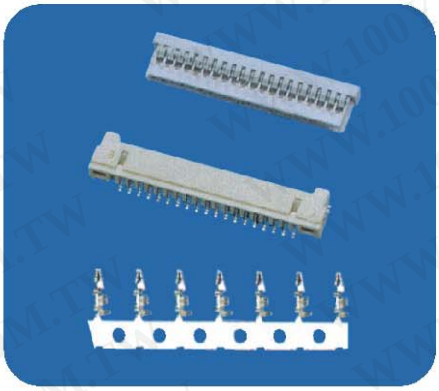


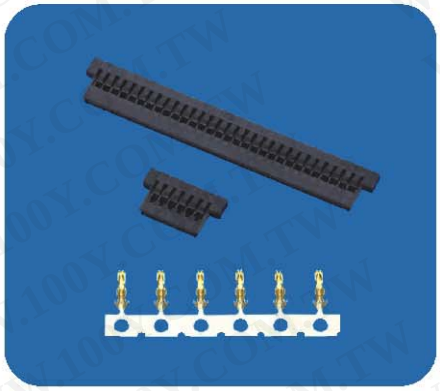
1.25T-3



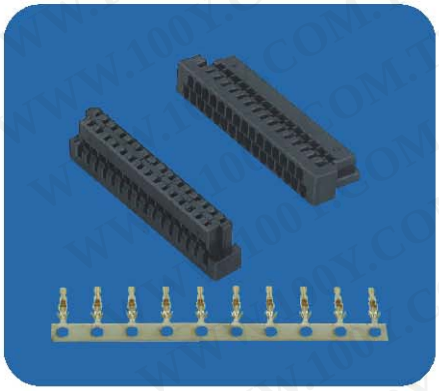
1.25T-4



1.25T-5(DF14)



1.25T-6(CF1213 单排)



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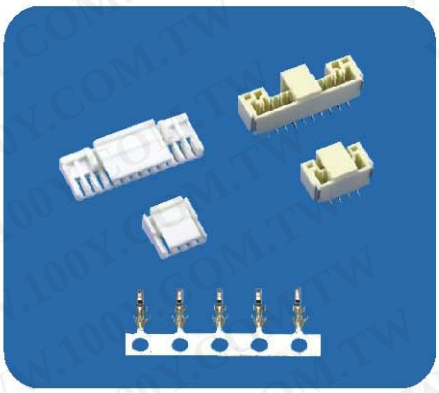
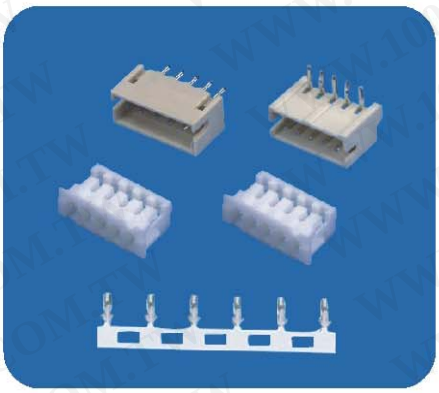
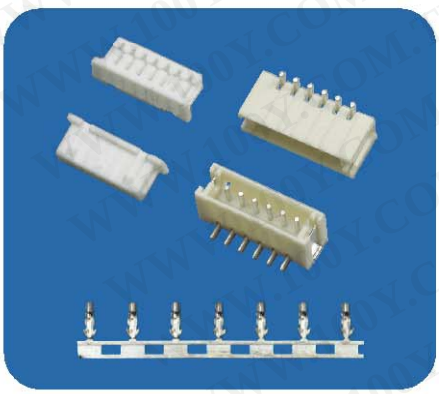


1.25T-7

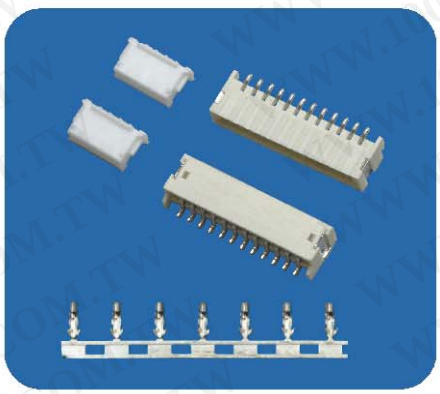
1.25T-8(SGN)



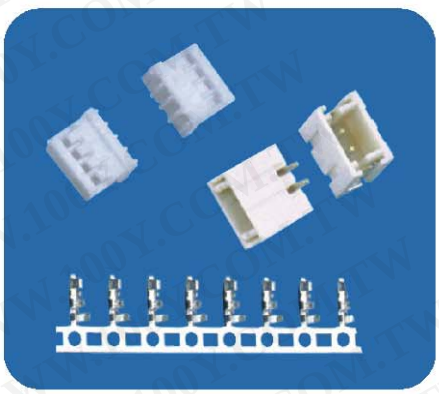
ZH1.5T-1-AW



ZH1.5T-1-LT(SMT)

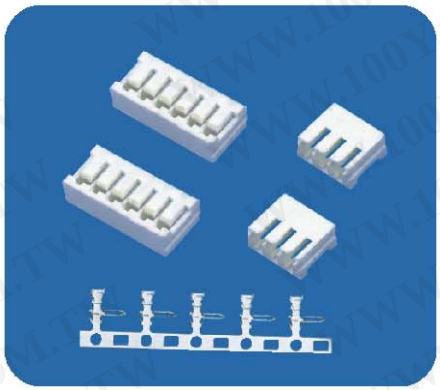


ZH1.5T-1-WT(SMT)

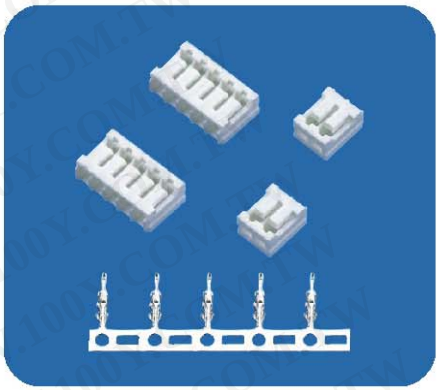


1.5T-2

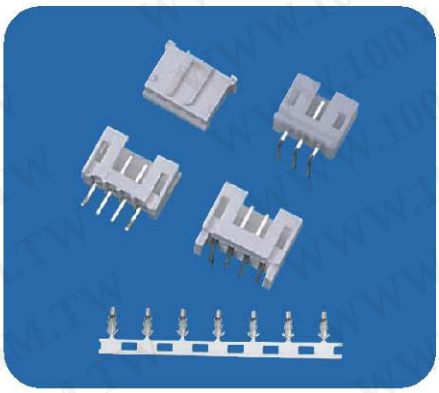
1.5T-3



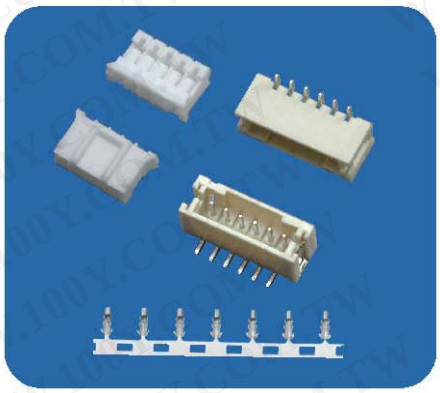
1.5T-4(JC15)



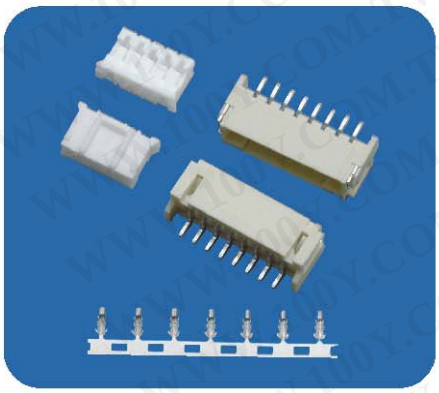
1.5T-5(SZN)



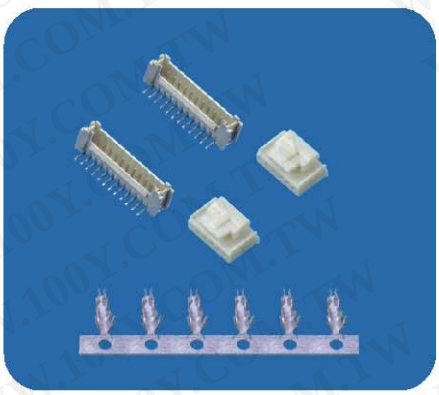
PH 2.0mm-1



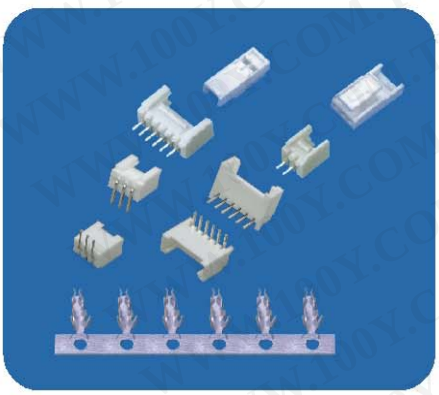
PH 2.0mm-1-LT(SMT)



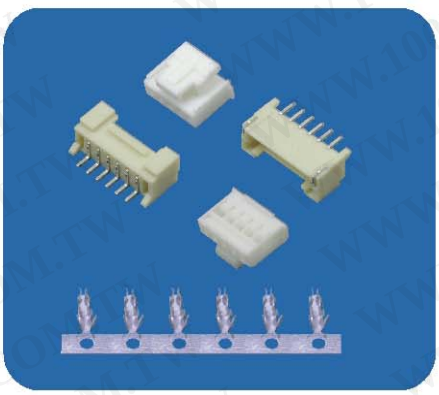
PH 2.0mm-1-WT(SMT)



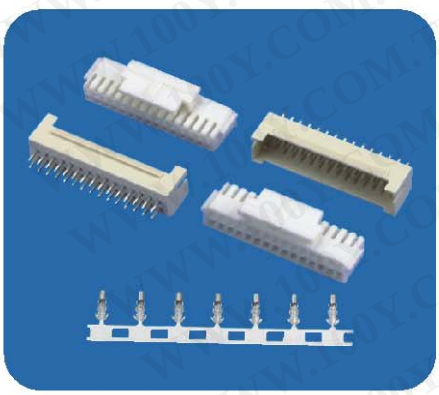
PHS 2.0mm-LT-2



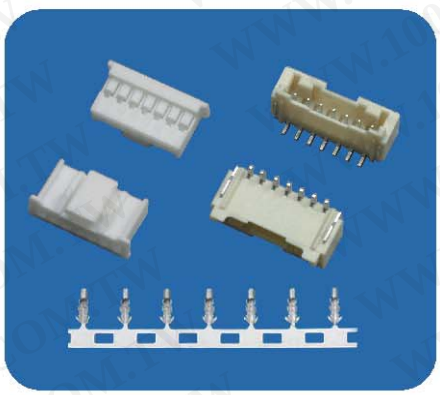
PHS 2.0mm-2



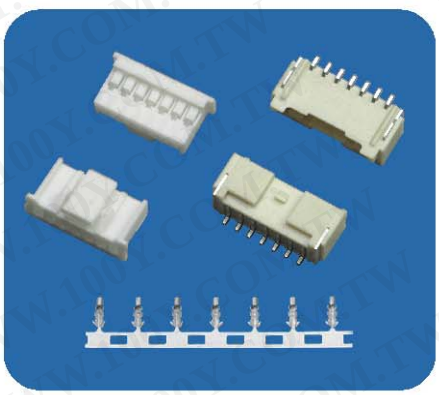
PHS-WT 2.0mm-2



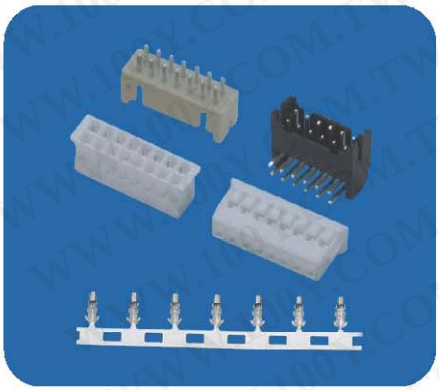
PHSD 2.0mm-3



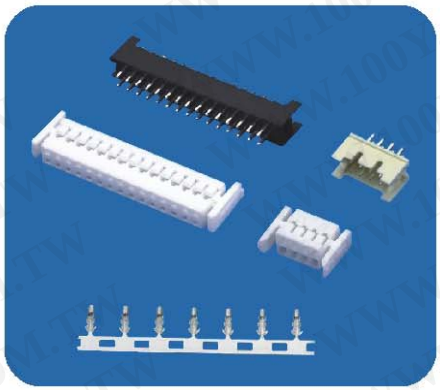
PA 2.0mm-LT-4



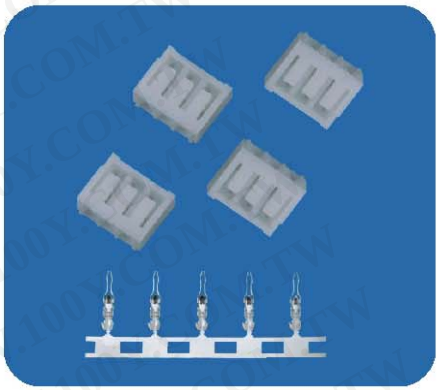
PA 2.0mm-WT-4



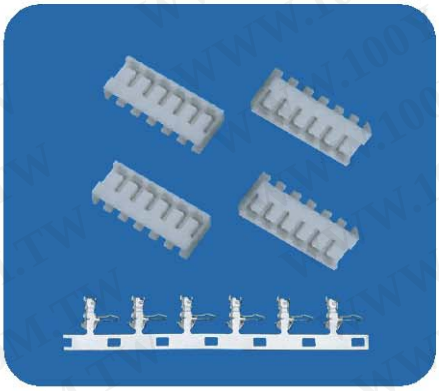
PHD 2.0mm-5



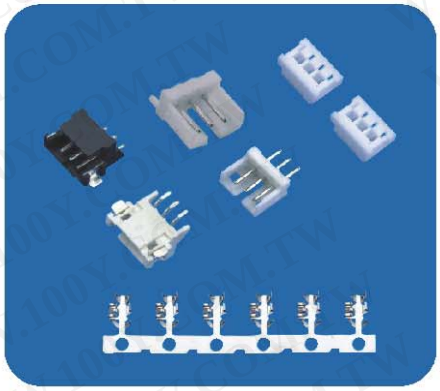
PHDS 2.0mm-6



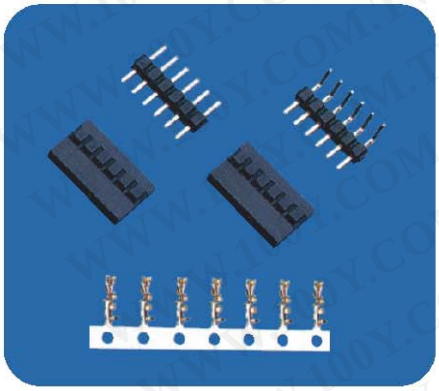
SAN 2.0mm-7



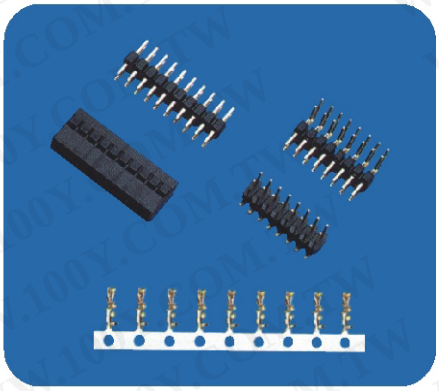
JC20 2.0mm-8



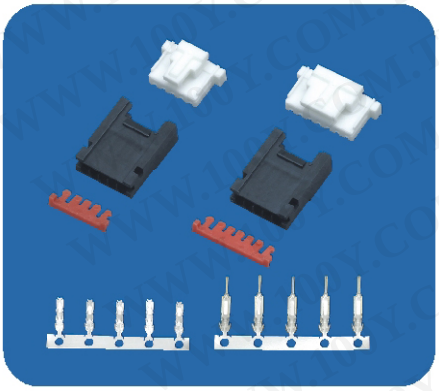
200AP 2.0mm-9



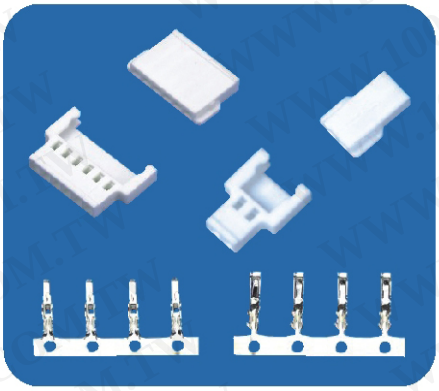
TJC8(杜邦单排) 2.0mm-10



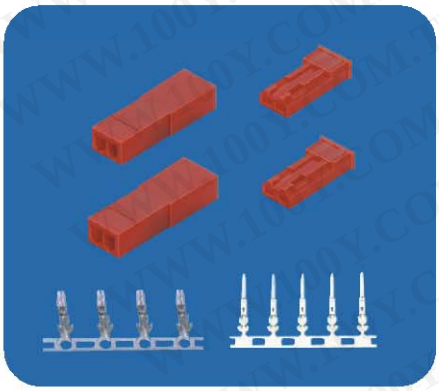
TJC8(杜邦双排) 2.0mm-11



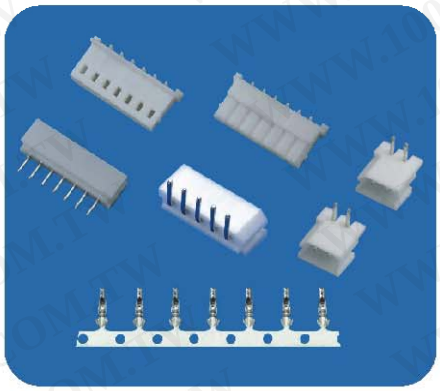
SMH200-H 2.0mm-12



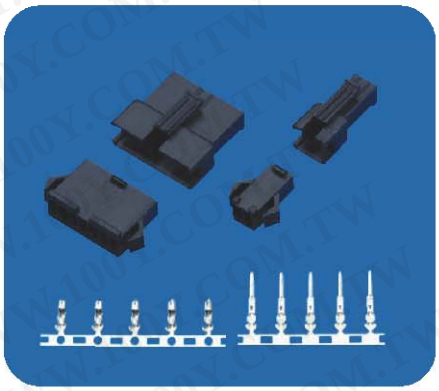
51005-51006 2.0mm-13



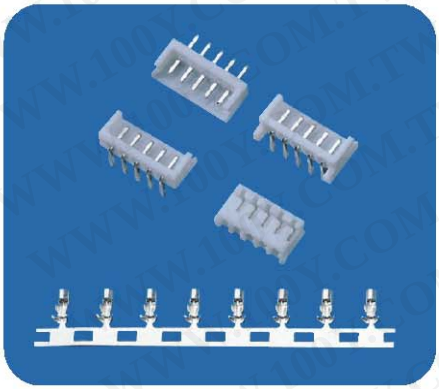
SYP 2.5mm-1



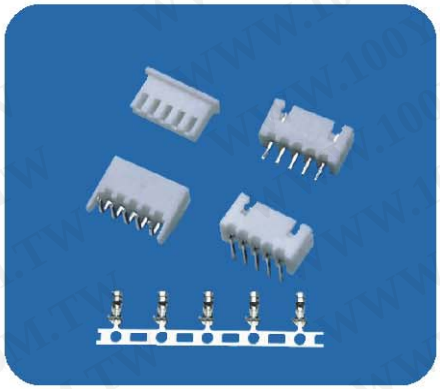
5264 2.5mm-2



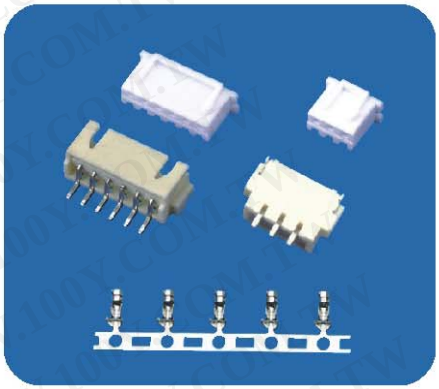
SM 2.5mm-3



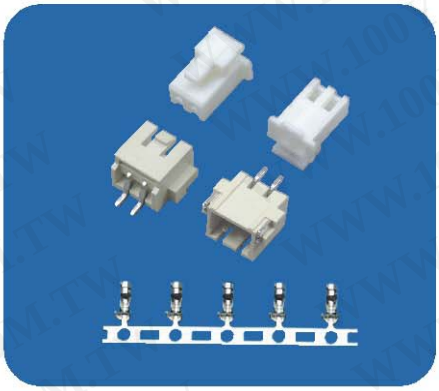
EH 2.5mm-4



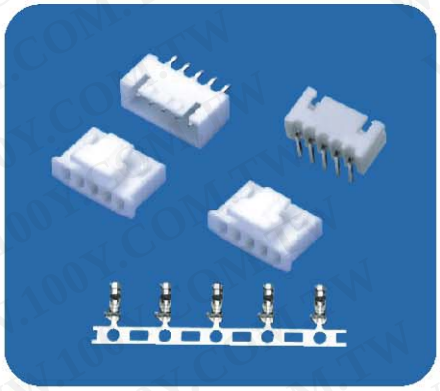
XH 2.5mm-5



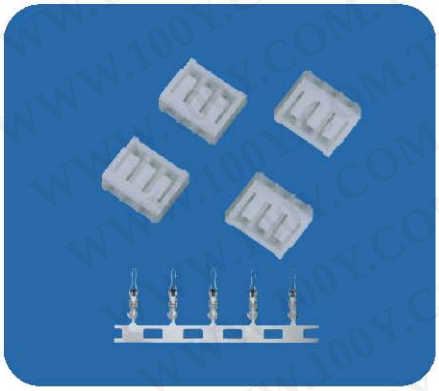
XH(SMT) 2.5mm-5



XHS-WT 2.5mm-6

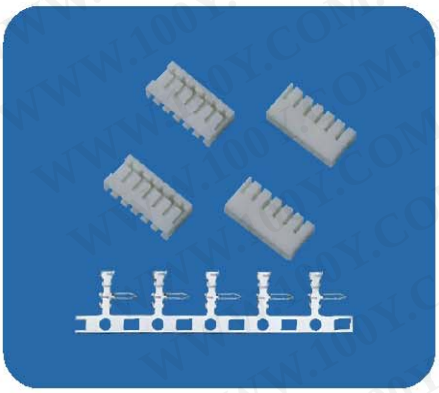


XHS 2.5mm-6

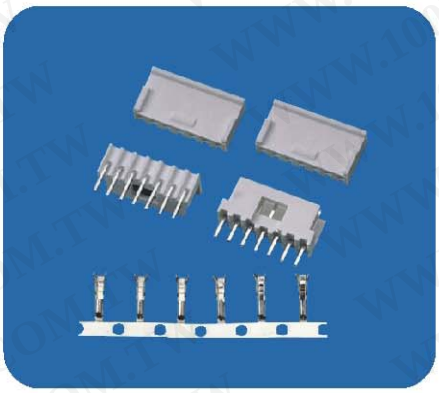


SCN 2.5mm-7

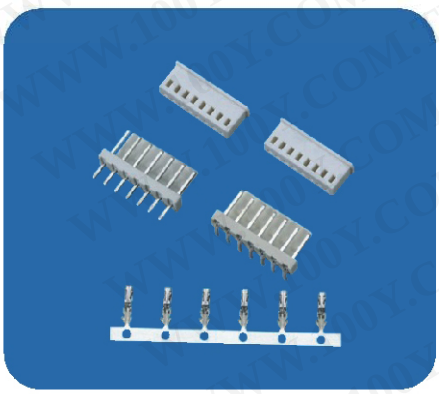
CH 2.5mm-8



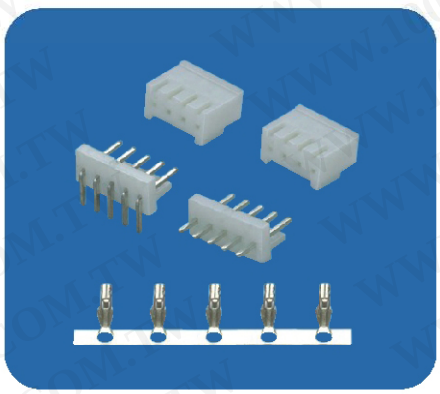
JC25 2.5mm-9



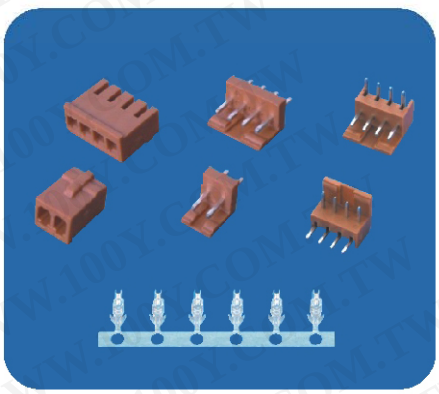
S11 2.5mm-10



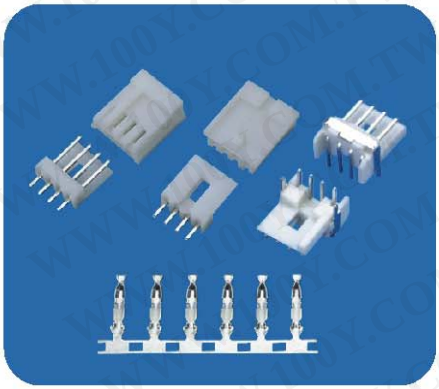
250-1 2.5mm-11



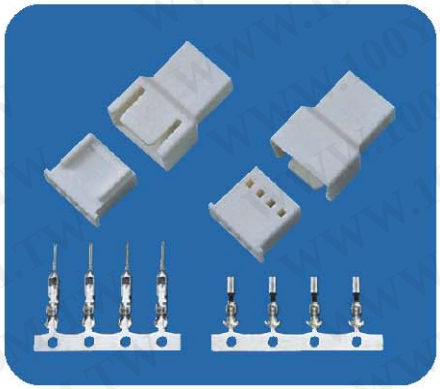
250-2 2.5mm-12



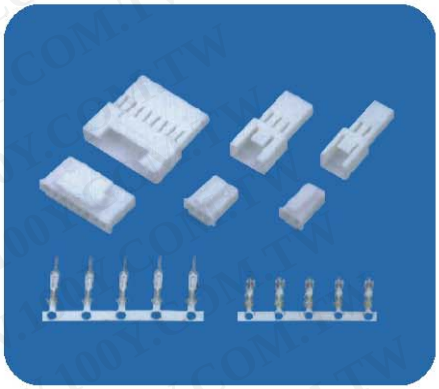
2507 2.5mm-13



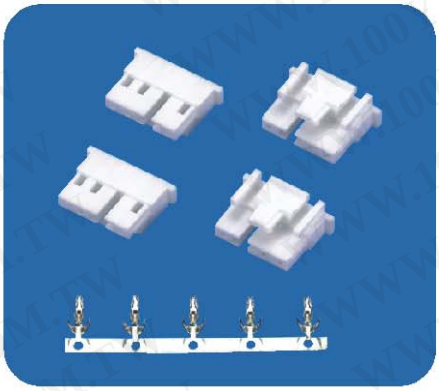
EI(JVC) 2.5mm-14



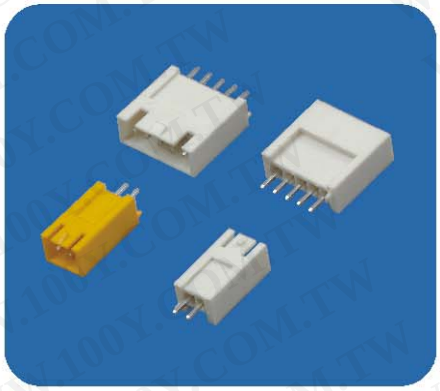
5102 5240 2.5mm-15



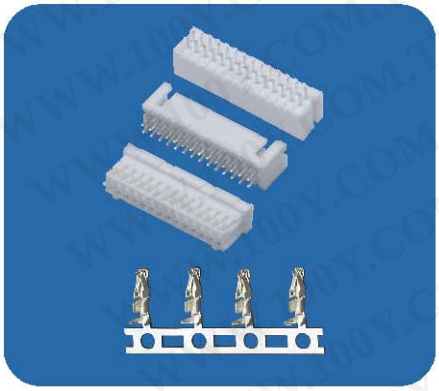
SMH SMP 2.5mm-16



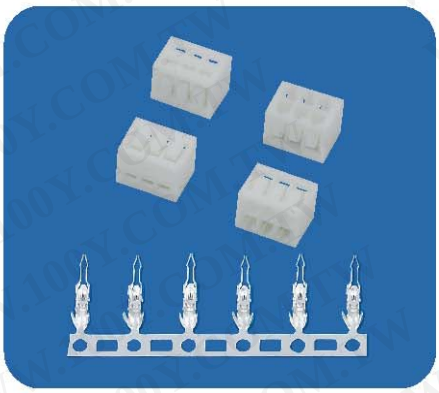
2.5mm-17



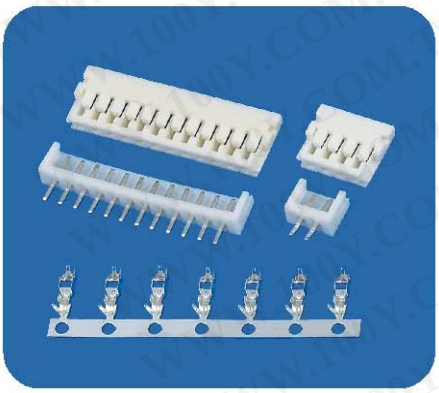
XHS-B 2.5mm-18



XH(双排) 2.5mm-19

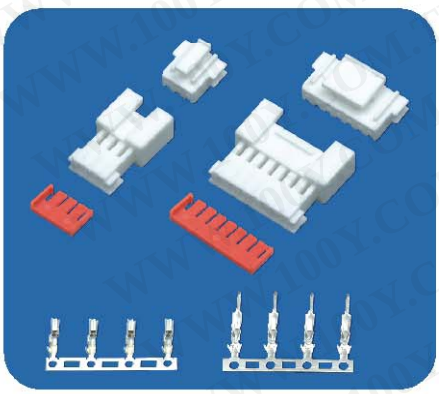


SCND 2.5mm-20

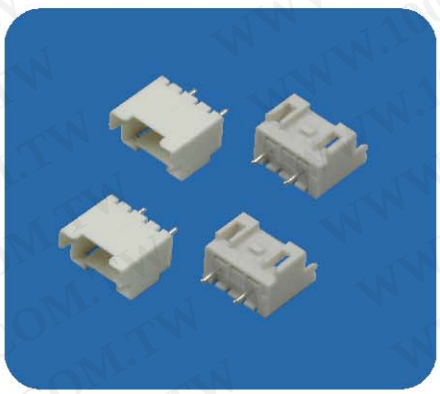


HR 2.5mm-21

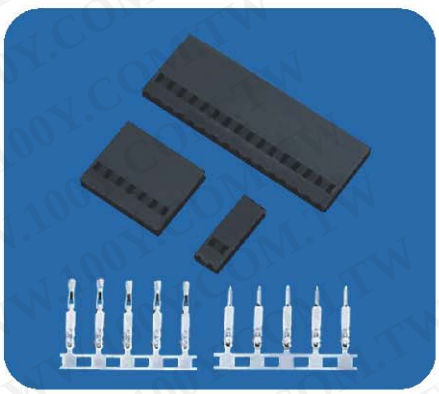
35155 2.5mm-22



HS25056/HP25056 2.5mm-23

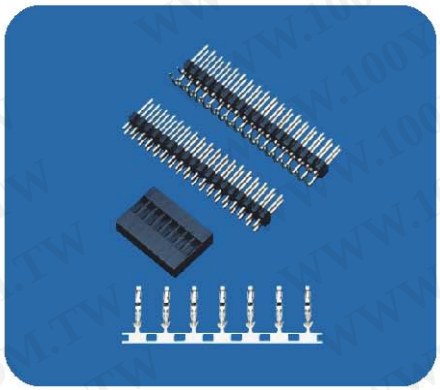


XA 2.5mm-24

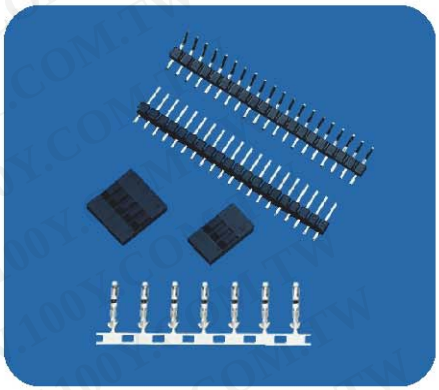


543 2.54mm-1

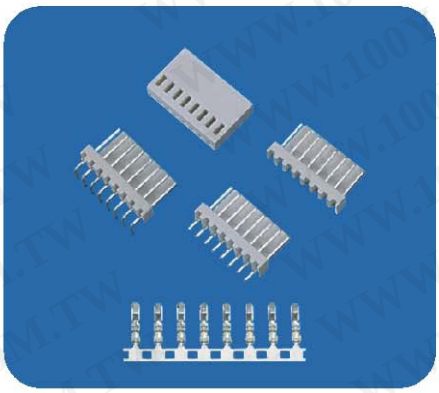
美尚美 2.54mm-2



TJC8(杜邦双排) 2.54mm-3

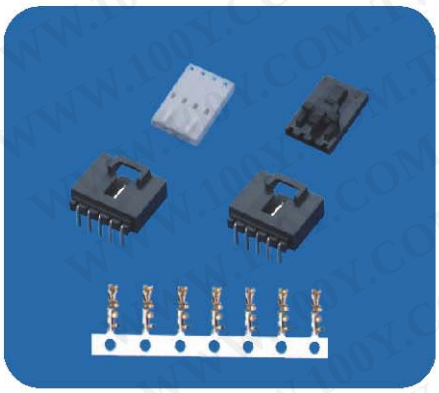


TJC8(杜邦单排) 2.54mm-4

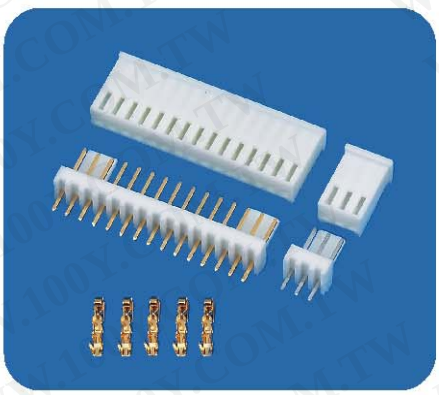


2510 2.54mm-5

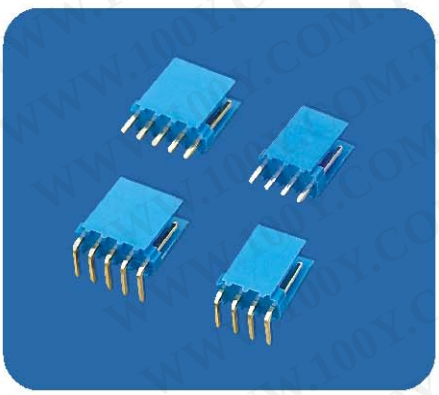
2510-2 2.54mm-6



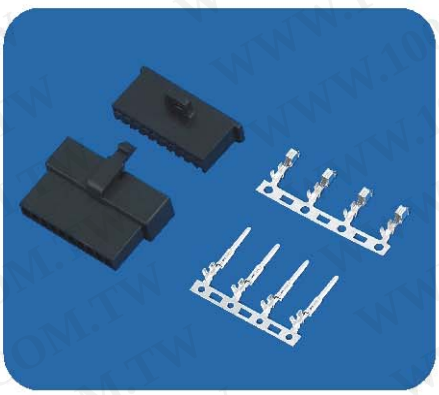
TJC8S 2.54mm-7



CH10 2.54mm-8



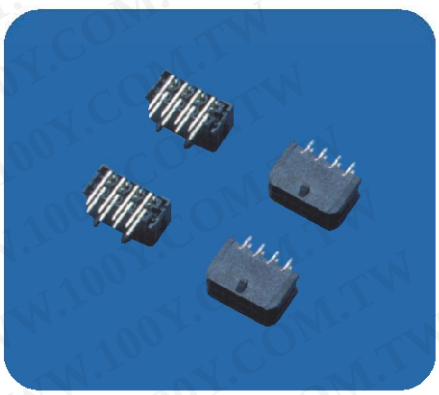
25415 2.54mm-9



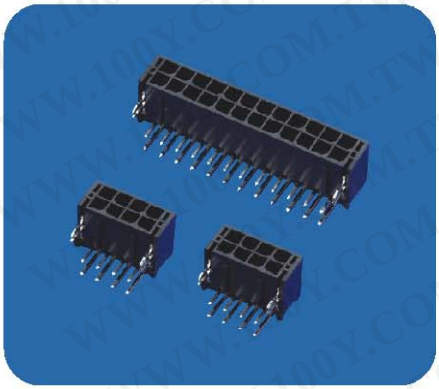
SMB 2.54mm-10

3001(单排) 3.0mm

3001(双排) 3.0mm

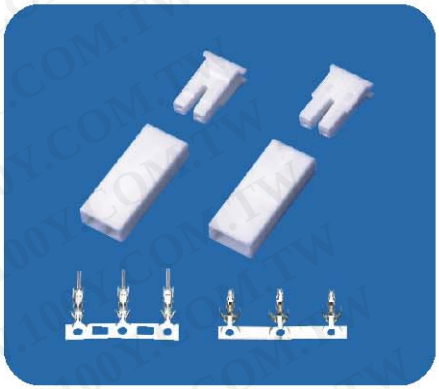


3002 3.0mm

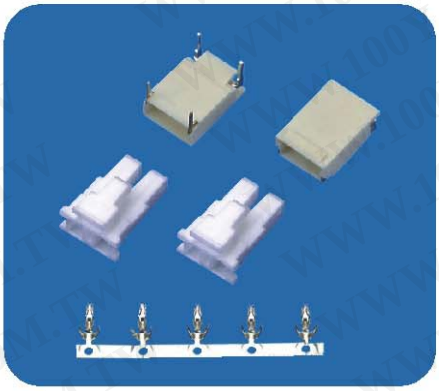


3003 3.0mm

BHD-3501 3.5mm

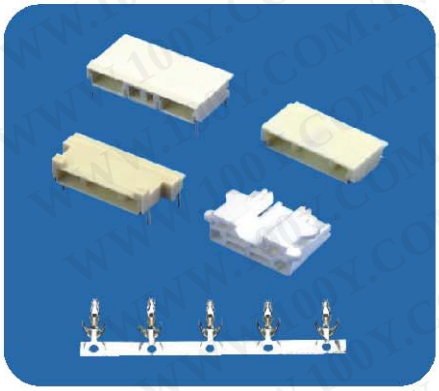


BHD-3502(对插) 3.5mm

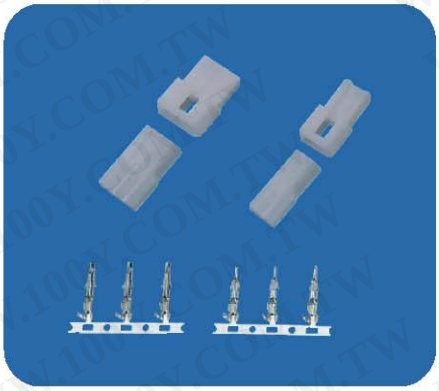


BHDS-3503 3.5mm

BHDS-3504(对插) 3.5mm



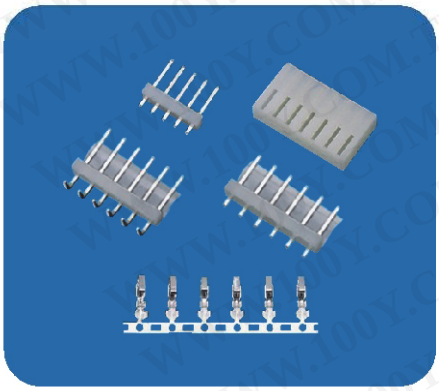
BD 13mm



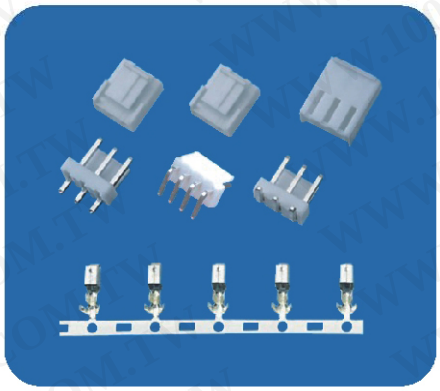
5500 5600 3.7mm-1

3.8-1-6P 3.8mm

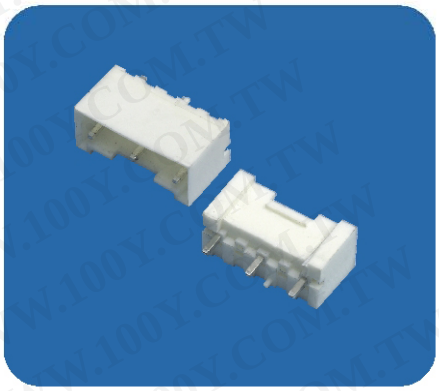
3.8-2-6P 3.8mm



TJC6 3.96mm-1

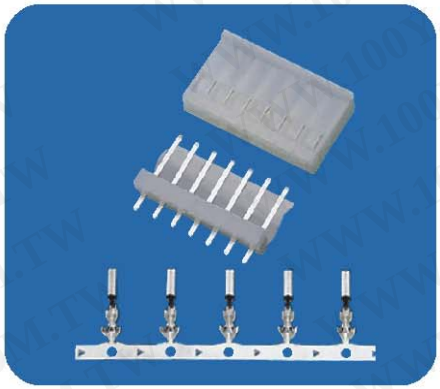


VH 3.96mm-2

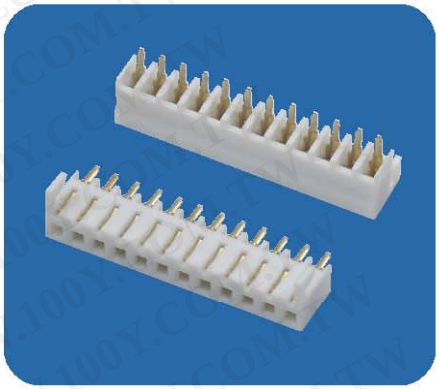


VH-C 3.96mm-2

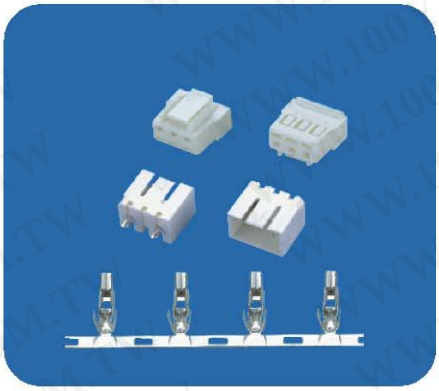
P8 P9 3.96mm-3



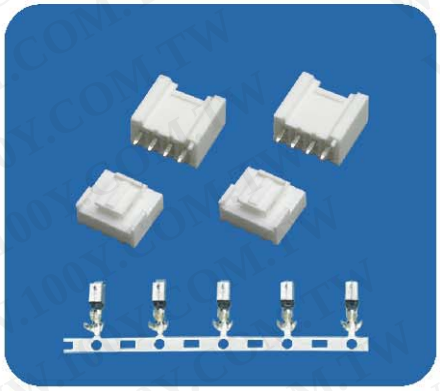
5195 3.96mm-4



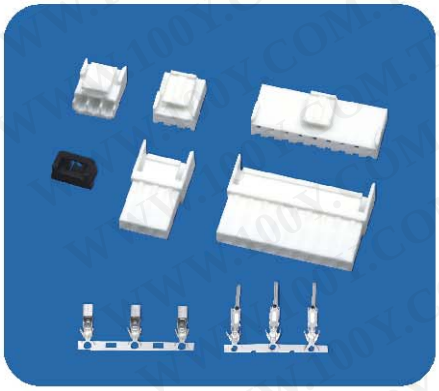
3.96-E 3.96mm-5



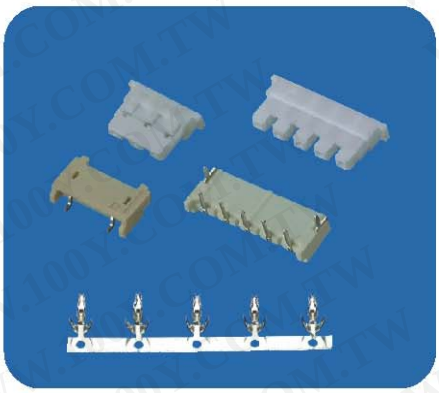
3.96mm-6



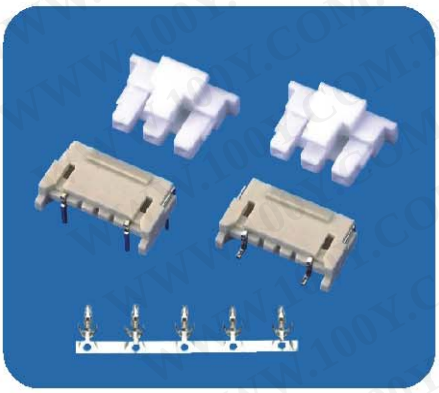
VH-B 3.96mm-7



VH/SMP396 3.96mm-8

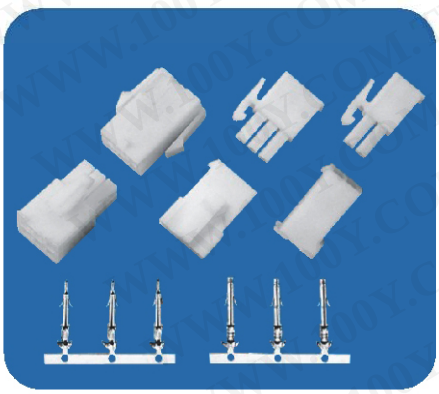


BH4001 4.0mm

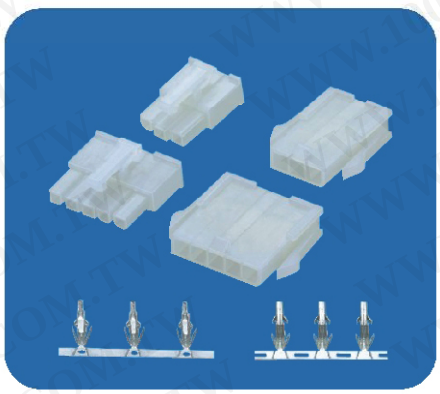


BHS4002 4.0mm

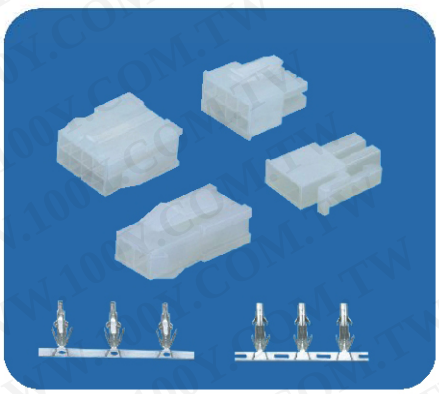
BH4003(对插) 4.0mm



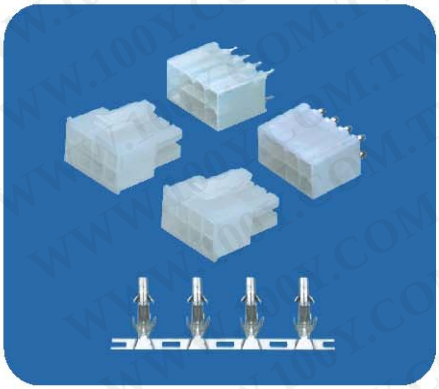
FL 4.14mm



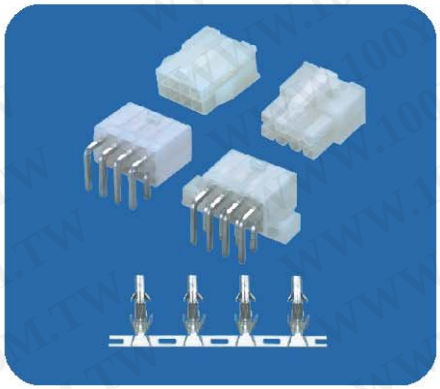
5557 5559 4.2mm-1



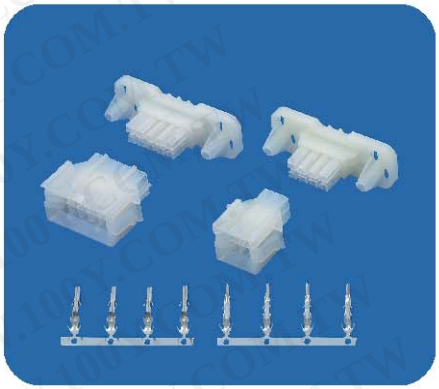
5557 5559 4.2mm-2



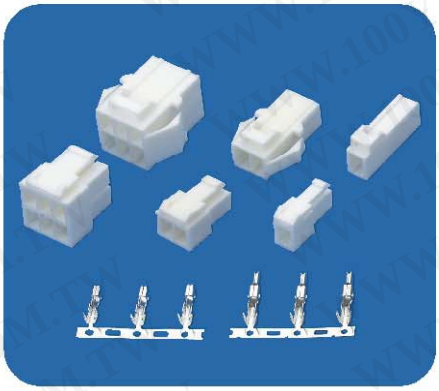
5557 5566 5569 4.2mm-3



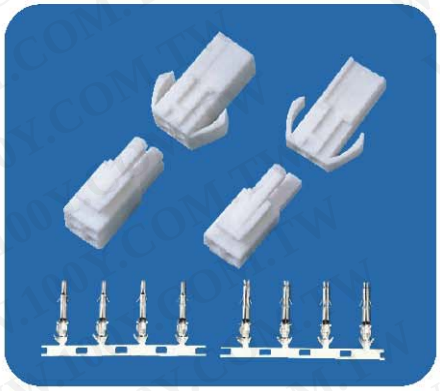
5557 5569 4.2mm-4



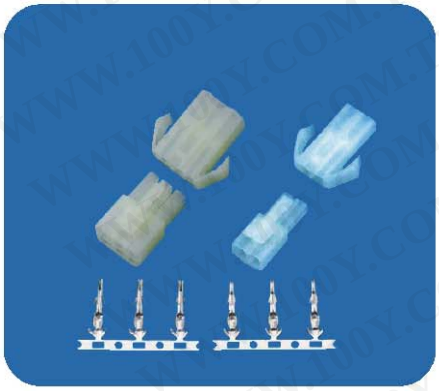
4247/42745 4.2mm-5



SL RV 4.2mm-5

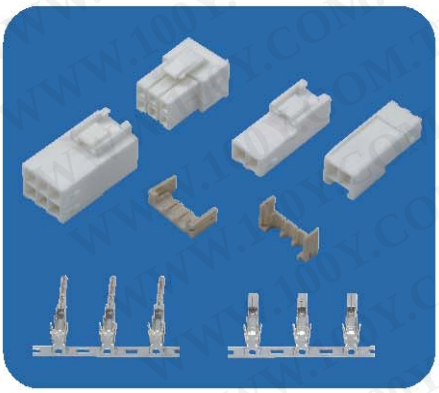


EL 4.5mm-1



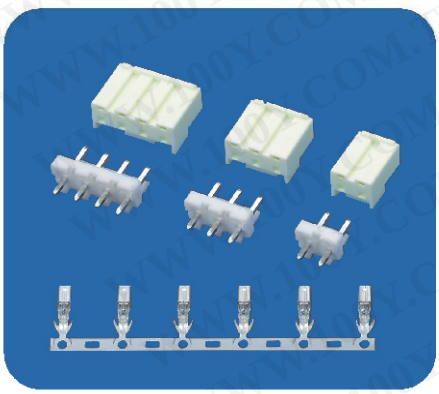
小型EL 4.5mm-2

YL 4.5mm-3

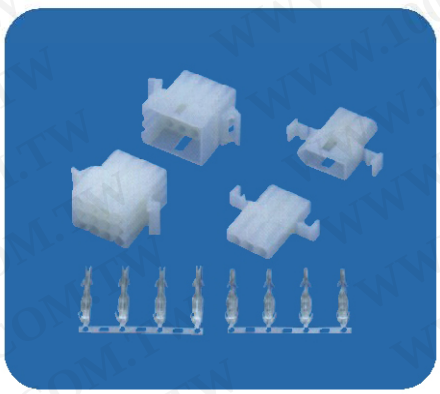


39612 3.96/4.6mm

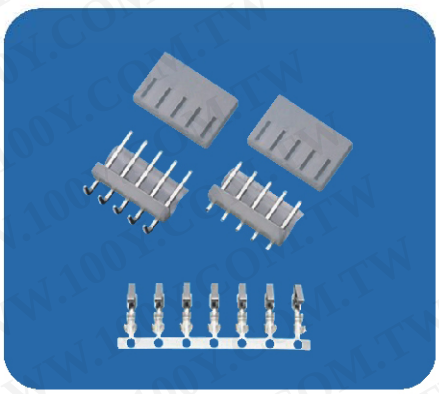
QH 5.0mm



NV 5.0mm

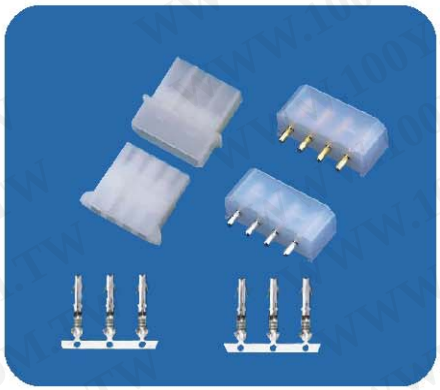


50300 50301 5.0mm

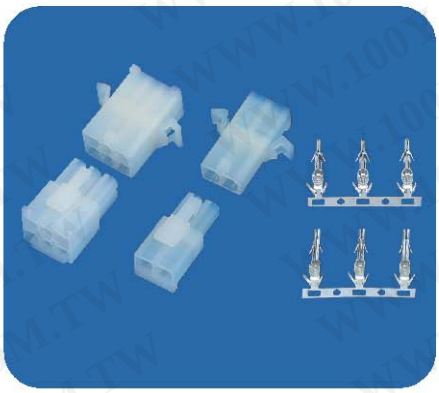


5058 5.08mm

8981(大4P) 5.08mm-1

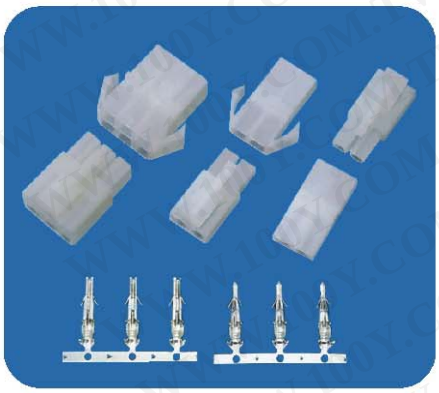


大4P 5.08mm-3

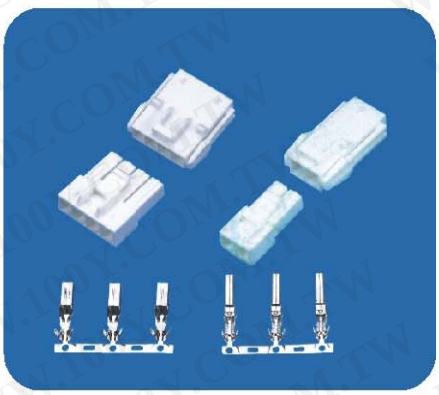


5025 5.5mm

8针 6.0mm



L6.2mm-1



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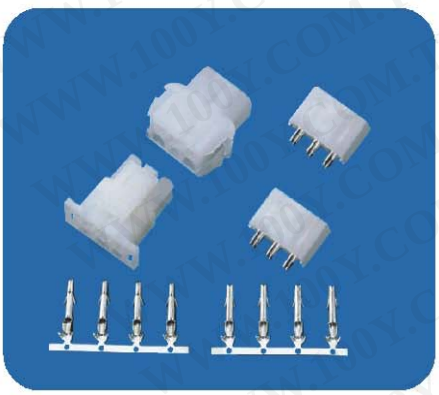
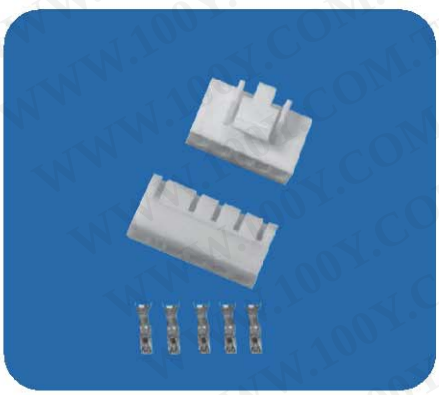
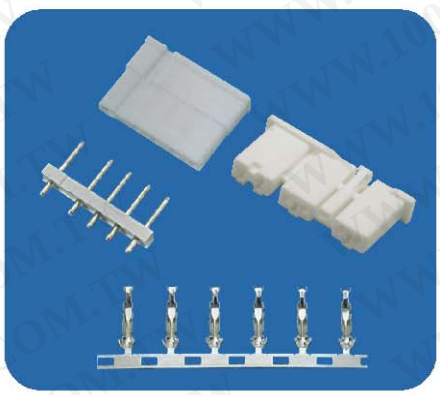


63080 6.3mm-2

3191 6.7mm-1



YHL-500(7.5-5.0)5.0mm-1



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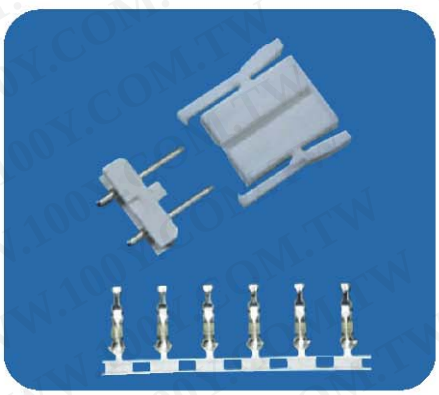
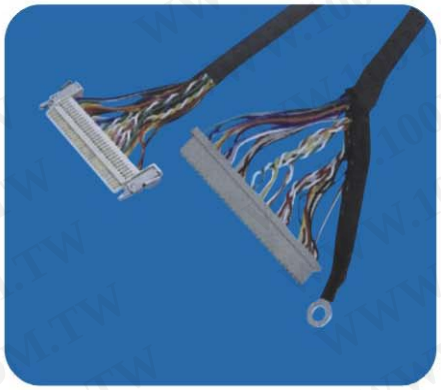


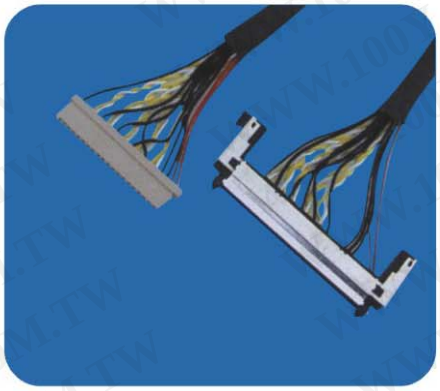
TJC2S(7.5-5.0)5.0mm-3

F1-X30HL 对 DF14-2*10P



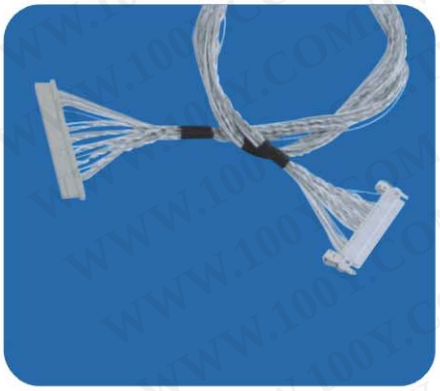
F1-X30HL 对 DF14-2*15P

F1-X30HL 对 DF2.0-2*15P



F1-X30HL 对 DF2.0-2*15P

F1-X30H 对 DF14-2*15P

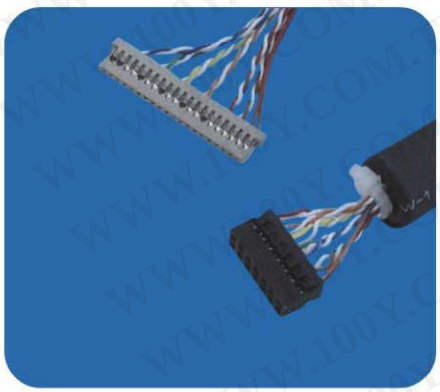


F1-X30HL 对 DF14-30P

F1-X30HL 对 DF14-30P

F1-X30H 对 DP2.0-2*15P

DF19-20P 对 DF14-20P



DF14-20P 对 DF2.0-2*7P

DF14 2.0-2*9P

DF14-20P 对 DF14-20P

汽车线束(Auto cable)

汽车线束(Auto cable)

汽车线束(Auto cable)

汽车线束(Auto cable)

汽车线束(Auto cable)

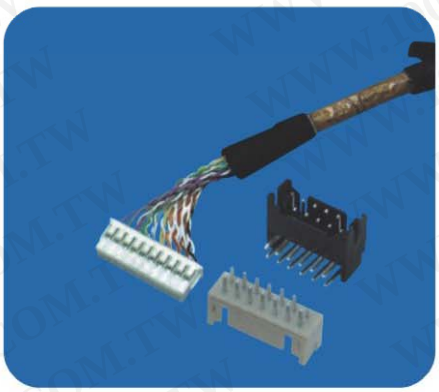
空调线束(Air conditioner)

洗衣机线束(Washer cable)

冰箱线束(Refrigeratory cable)

线束(cable)

线束(cable)



线束(cable)

线束(cable)

ZH1.5 SERIES

Scope: This specification covers the 1.5mm spacing WIRE TO BOARD connector series.

Index: Page

1. Product name and part number . . . 2
2. Ratings and applicable wires . . . 2
3. Performance . . . 2
   3-1. Electrical performance . . . 2
      3-1-1. Contact resistance . . . 2
      3-1-2. Insulation resistance . . . 2
      3-1-3. Dielectric strength . . . 2
      3-1-4. Contact resistance on crimped portion . . . 2
   3-2. Mechanical performance . . . 2
      3-2-1. Insertion force and withdrawal force . . . 2
      3-2-2. Crimping pull out force . . . 3
      3-2-3. Terminal insertion force . . . 3
      3-2-4. Terminal/Housing retention force . . . 3
      3-2-5. Pin retention force . . . 3
   3-3. Environmental performance and others . . . 3
      3-3-1. Repeated insertion/withdrawal . . . 3
      3-3-2. Temperature rise . . . 3
      3-3-3. Vibration . . . 3
      3-3-4. Shock . . . 3
      3-3-5. Heat resistance . . . 3
      3-3-6. Cold resistance . . . 3
      3-3-7. Humidity . . . 4
      3-3-8. Temperature cycling . . . 4
      3-3-9. Salt spray . . . 4
      3-3-10. Solderability . . . 4
      3-3-11. Resistance to soldering heat . . . 4
4. Insertion force and withdrawal force . . . 4
5. Product shape, dimensions and materials . . . 5

FILE NO	ENS008	APPROVAL	CHECK	DRAWING
ECR/N B	New spec			

[1. Product name and part number]

Product Name	Part Number
Terminal	1.5T-1-T
Housing	ZH1.5T-1-NY
Wafer Assembly ST. (DIP/SMT)	ZH1.5T-1-NA/ZH1.5T-1-LT-NA
Wafer Assembly R.A (DIP/SMT)	ZH1.5T-1-NAW/ZH1.5T-1-WT-NA
	ZH1.5T-1-WT-14A-L

[2. Ratings and applicable wires]

ITEM	STANDARD
Rated Voltage	50V DC/AC (rms)
Rated Current	1A (AWG. #26)
Applicable wires	AWG. #26~#32
Insulation O.D	Ø0.9mm (max.)
Ambient Temperature	-25°C ~ +85°C *

* : Including terminal temperature rise.

[3. Performance]

3-1. Electrical Performance

ITEM		Test condition	Requirement
3-1-1	Contact resistance	Mate connectors, measure by dry circuit, 20mV MAX., 10mA. Mated Length : 50mm (AWG. #26) (Based upon JIS C5402 5.4)	20mΩ (max.)
3-1-2	Insulation resistance	Mate connectors, apply 500V DC between adjacent terminals or ground. (Based upon JIS C5402 5.2/MIL-STD-202 method 302 Cond.B)	500MΩ (min.)
3-1-3	Dielectric strength	Mate connectors, apply 500V AC for 1 minute between adjacent terminal or ground. (Based upon JIS C5402 5.1/MIL-STD-202 Method 301)	No breakdown and flashover
3-1-4	Contact resistance on crimped portion	Crimp the maximum applicable wire on to the terminal, measure by dry circuit, 20mV MAX., 10mA. Wire Length : 50mm (AWG. #26)	10mΩ (max.)

3-2. Mechanical Performance

ITEM		Test condition	Requirement
3-2-1	Insertion force and withdrawal force	Insert and extract connectors at a speed of 25±3mm/minute	Refer to paragraph 5

3-2-2	Crimping pull out force	Fix the crimped terminal, apply axial pull out force on the wire at a speed of 25±3mm/minute (Based upon JIS C5402 6.8)	Wire size: #26 / #28 / #30 / #32 1 width: 1.00±0.1 1 height: 0.57 ~0.62 / 0.52 ~0.57 / 0.47 ~0.52 / 0.42 ~0.47 2 width: 1.10 2 height: 1.45 / 1.10 / 1.00 / 1.00 Crimp strength: 1.8kgf min / 1.5kgf min / 0.8kgf min / 0.5kgf min 1: CONDUCTOR(mm) 2: INSULATION(mm)
3-2-3	Terminal insertion force	Insert the crimped terminal into the housing at a speed of 25±3mm/min.	0.5kgf (max.)
3-2-4	Terminal/ Housing retention force	Apply axial pull out force at a speed of 25±3mm/minute on the terminal assembled In the housing.	1.0kgf (min.)
3-2-5	Pin retention force	Apply axial push force at a speed of 25±3mm/minute on the contact pin assembled in the base wafer.	1.0kgf (min.)

3-3. Environmental Performance and Others

ITEM		Test condition	Requirement	
3-3-1	Repeated insertion/ withdrawal	Mate connector up to 30 cycles repeatedly at a rate of 10 cycles/ minute. After which test the contact resistance	Contact resistance	30mΩ (max.)
3-3-2	Temperature rise	Apply rated current load on mated connector in series-connection. Measure change of temperature on contact using thermocouples for 4 hours. (Based upon UL 1977)		30°C (max.)
3-3-3	Vibration	Amplitude: 1.52mm P.P Sweep time: 10-55-10Hz/minute Duration: 2 hours in each X、Y、Z axlals. (Based upon MIL-STD-202 method 201A)	Appearance	No Damage
			Contact Resistance	30mΩ (max.)
			Discontinui-ty	1μ sec (max.)
3-3-4	Shock	50G, 3 strokes in each X、Y、Z. axlals. (Based upon JIS C0041/MIL-STD-202 method 213B Cond.A)	Appearance	No Damage
			Contact Resistance	30mΩ (max.)
			Discontinuity	1μ sec (max.)
3-3-5	Heat resistance	Mated connector shall be placed in an oven for 96±4 hours at +85±2°C. (Based upon JIS C5402 7.8)	Appearance	No Damage
			Contact Resistance	30mΩ (max.)
3-3-6	Cold resistance	Mated connector shall be placed in a temperature chamber for 96±4 hours at -25±3°C (Based upon JIS C5402 7.9)	Appearance	No Damage
			Contact Resistance	30mΩ (max.)

3-3-7	Humidity	Mated connector shall be placed in a humidity chamber on the following conditions. Temperature: 40±2°C Relative humidity: 90~95% Duration : 96 hours (Based upon JIS C0022/MIL-STD-202 Method 103B Cond.B)	Appearance	No Damage
			Contact Resistance	30mΩ (max.)
			Dielectric strength	Must meet 3-1-3
			Insulation resistance	100MΩ (min.)
3-3-8	Temperature cycling	Mated connector shall be set to temperature cycling for 5 cycles of which 1 cycle consists of: 1>.+25°C ~ 3 minutes 2>.-25°C ~ 30 minutes 3>.+25°C ~ 3 minutes 4>.+85°C ~ 30 minutes (Based upon JIS C5402 7.2)	Appearance	No Damage
			Contact Resistance	30mΩ (max.)
			Dielectric strength	Must meet 3-1-3
			Insulation resistance	100MΩ (min.)
3-3-9	Salt spray	Mated connector shall be placed in a salt spray chamber on the following conditions. Salt Solution Density : 5±1% Temperature : 35±2°C Duration : First punch,second plate:24±4Hours First plate,second punch:8±2Hours Remarks : we make sure the important area	Appearance	No Damage
			Contact Resistance	30mΩ (max.)
3-3-10	Solderability	Immerse fluxed soldered section of contact pin into a solder bath for 3±0.5sec temperature: 230±5°C	95% of immersed area must show no voids nor pin holes.	
3-3-11	Resistance to soldering heat	Mated connector shall be dipped on solder bath for 5±0.5sec temperature: 260±5°C	No Damage in appearance	

[4. Insertion force and withdrawal force]

[UNIT:Kgf]

Circuits	Insertion (MAX.)	Withdrawal (MIN.)		
	Initial	Initial	10th	30th
2	1.5	0.50	0.30	0.20
3	2.0	0.60	0.40	0.30
4	2.5	0.70	0.50	0.40
5	3.0	0.80	0.60	0.50
6	3.5	0.90	0.70	0.60
7	4.0	1.00	0.80	0.70
8	4.5	1.10	0.90	0.80
9	5.0	1.20	1.00	0.90
10	5.5	1.30	1.10	1.00

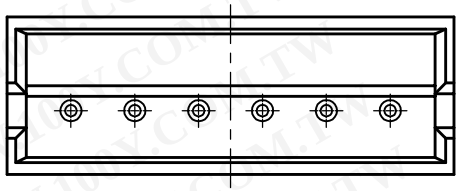
[UNIT:Kgf]

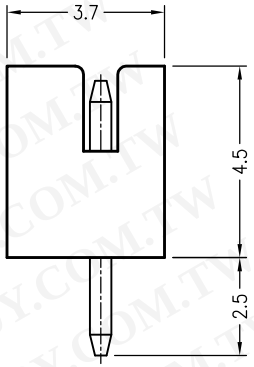
Circuits	Insertion (MAX.)	Withdrawal (MIN.)		
	Initial	Initial	10th	30th
11	6.0	1.40	1.20	1.10
12	6.5	1.50	1.30	1.20
13	7.0	1.60	1.40	1.30
14	7.5	1.70	1.50	1.40
15	8.0	1.80	1.60	1.50
16	8.5	1.90	1.70	1.60

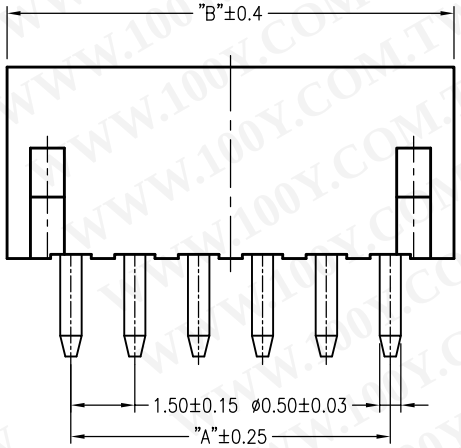
[5. Product shape, Dimensions and materials]

<REFER TO THE DRAWING>

Poles	DIM.A	DIM.B
2P	1.5	4.5
3P	3.0	6.0
4P	4.5	7.5
5P	6.0	9.0
6P	7.5	10.5
7P	9.0	12.0
8P	10.5	13.5
9P	12.0	15.0
10P	13.5	16.5
11P	15.0	18.0
12P	16.5	19.5
13P	18.0	21.0
14P	19.5	22.5
15P	21.0	24.0
16P	22.5	25.5





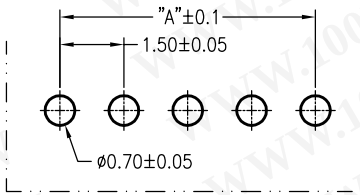


■ 技术参数 SPECIFICATIONS

- ◆ 适用线规: AWG.#26~#32
  Applicable Wire: AWG.#26~#32
- ◆ 额定电压: 50V DC/AC(rms)
  Rated voltage: 50V DC/AC(rms)
- ◆ 额定电流: 1A (AWG #26)
  Rated Current: 1A (AWG #26)
- ◆ 耐压值: 500V AC/minute
  Withstand voltage: 500V AC/min.
- ◆ 工作温度: −25℃ ~ +85℃
  Working Temp : −25℃ ~ +85℃
- ◆ 绝缘电阻: ≥500 MΩ
  Insulation resistance: ≥500 MΩ
- ◆ 接触电阻: ≤20 mΩ
  Contact resistance: ≤20 mΩ

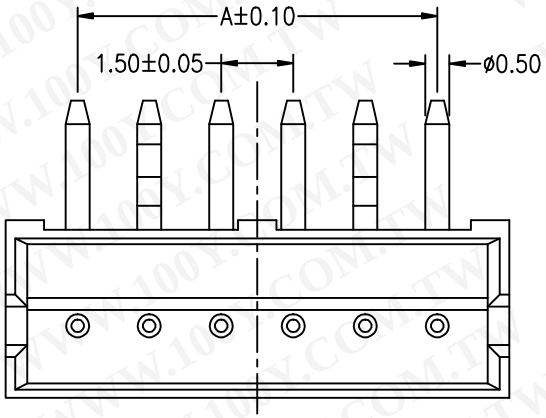
■ 材料 MATERIAL

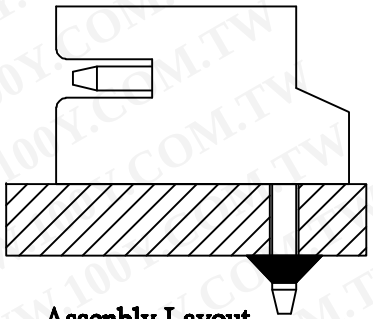
- ◆ 绝缘体: 尼龙46, UL94−V0
  Insulator: PA46, UL94−V0
- ◆ 接触针: 黄铜
  Contact PIN: Brass



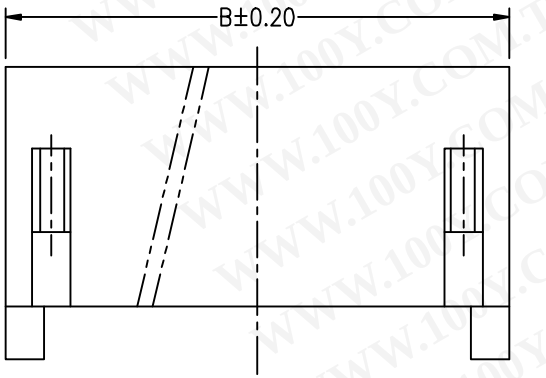
P.C.B LAYOUT

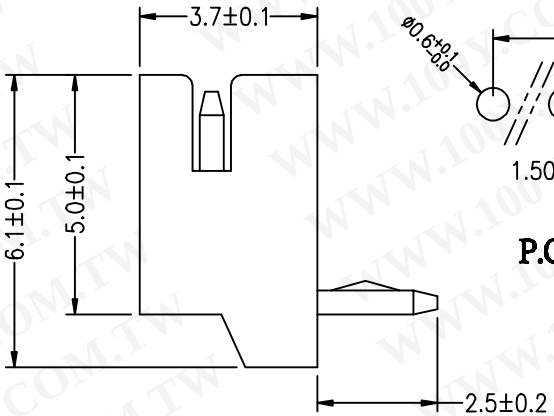
尺寸 \ Pin数	2P	3P	4P	5P	6P	7P	8P	9P	10P	11P	12P	13P	14P	15P
A	1.50	3.00	4.50	6.00	7.50	9.00	10.50	12.00	13.50	15.00	16.50	18.00	19.50	21.00
B	4.50	6.00	7.50	9.00	10.50	12.00	13.50	15.00	16.50	18.00	19.50	21.00	22.50	24.00

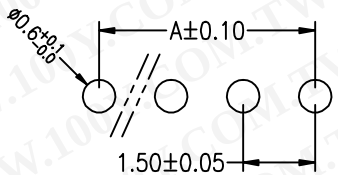




Assenbly Layout







P.C.B Layout

技术参数 SPECIFICATIONS

- 极数:2~15 Poles:2~15
- 适用线规：AWG#28~#22
  Applicable：AWG#28~#22
- 额定电压: AC,DC,150V(有效值)
  Voltage rating: AC,DC,150V(rms)
- 额定电流: 1.0A,AC,DC
  Current rating: 1.0A,AC,DC
- 耐压值: 500V AC/minute
  Withstand voltage: 500V AC/minute
- 工作温度: -25℃~+85℃
  Working Temperature: -25℃~+85℃
- 绝缘电阻: ⩾1000 MΩ
  Insulation resistance: ⩾1000 MΩ
- 接触电阻: ⩽0.02 Ω
  Contact resistance: ⩽0.02 Ω

材料 MATERIAL

- 插针：黄铜 （PIN: Bronze）
- A座：Nylon （Wafer：Nylon）

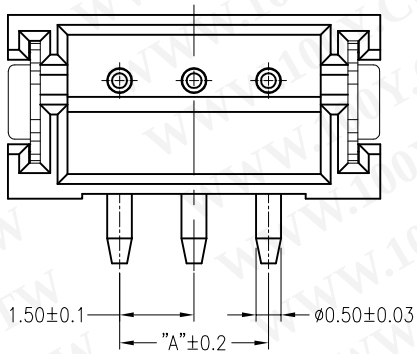
包装方式 PACKAGE

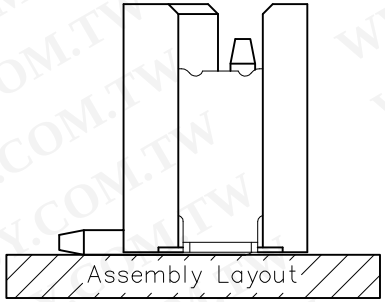
- 管装 Pipe Package
- 袋装 Bag Package

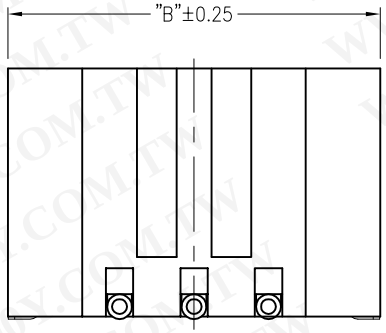
PART NO: 1.5 T - 1 - n A W

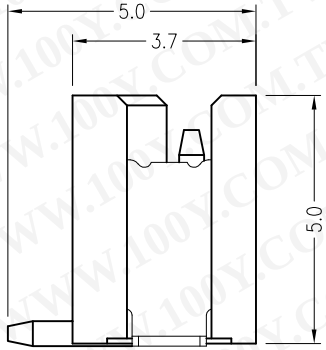
- 间距:（Pitch）
- 条形连接器:(Bar connector)
- 类型：（Type）
- 线数：（Poles）
- A：A座
- 卧式：(Horizontal type)

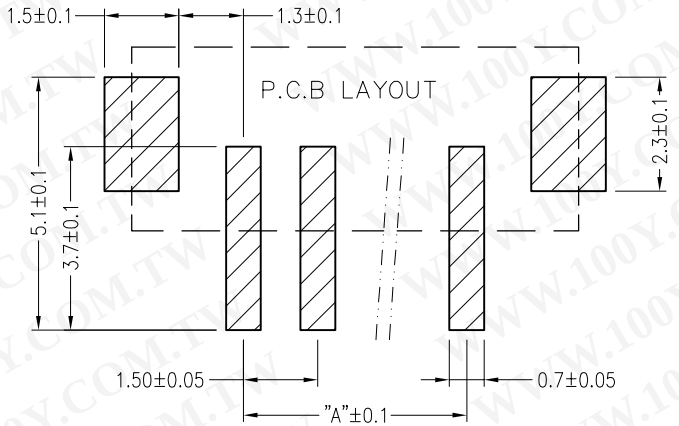
Poles	DIM.A	DIM. B
2	1.5	6.0
3	3.0	7.5
4	4.5	9.0
5	6.0	10.5
6	7.5	12.0
7	9.0	13.5
8	10.5	15.0
9	12.0	16.5
10	13.5	18.0
11	15.0	19.5
12	16.5	21.0
13	18.0	22.5
14	19.5	24.0
15	21.0	25.5
16	22.5	27.0











■ 技术参数 SPECIFICATIONS

- ◆ 适用线规: AWG#32~#26
  Applicable Wire: AWG#32~#26
- ◆ 额定电压: 50V DC,AC(rms)
  Rated voltage: 50V DC,AC(rms)
- ◆ 额定电流: 1A (AWG #26)
  Rated Current: 1A (AWG #26)
- ◆ 耐压值: 500V AC/minute
  Withstand voltage: 500V AC/min.
- ◆ 工作温度: −25℃ ~ +85℃
  Working Temp : −25℃ ~ +85℃
- ◆ 绝缘电阻: ≥500 MΩ
  Insulation resistance: ≥500 MΩ
- ◆ 接触电阻: ≤20 mΩ
  Contact resistance: ≤20 mΩ

■ 材料 MATERIAL

- ◆ 绝缘体: 尼龙9T, UL94−V0
  Insulator: Nylon9T, UL94−V0
- ◆ 接触针: 黄铜
  Contact PIN: Brass
- ◆ 焊片: 磷铜
  Solder tab: Phosphor bronze

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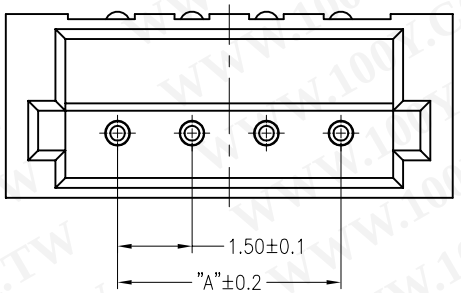
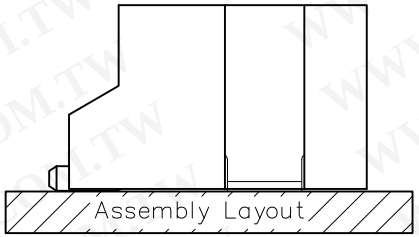
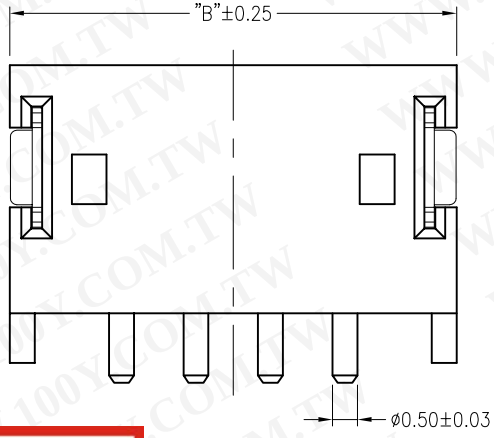
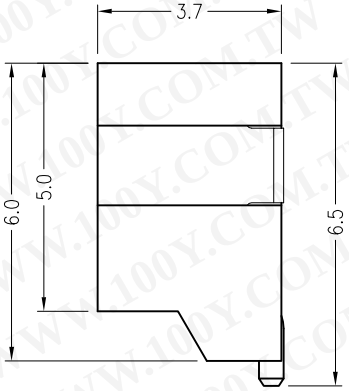
Poles	DIM.A	DIM. B
2	1.5	6.0
3	3.0	7.5
4	4.5	9.0
5	6.0	10.5
6	7.5	12.0
7	9.0	13.5
8	10.5	15.0
9	12.0	16.5
10	13.5	18.0
11	15.0	19.5
12	16.5	21.0
13	18.0	22.5
14	19.5	24.0
15	21.0	25.5
16	22.5	27.0







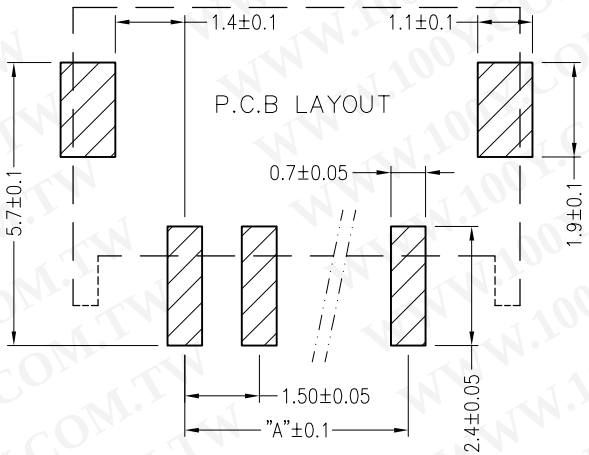


■ 技术参数 SPECIFICATIONS

- ◆ 适用线规: AWG#32~#26
  Applicable Wire: AWG#32~#26
- ◆ 额定电压: 50V DC,AC(rms)
  Rated voltage: 50V DC,AC(rms)
- ◆ 额定电流: 1A (AWG #26)
  Rated Current: 1A (AWG #26)
- ◆ 耐压值: 500V AC/minute
  Withstand voltage: 500V AC/min.
- ◆ 工作温度: −25℃ ~ +85℃
  Working Temp : −25℃ ~ +85℃
- ◆ 绝缘电阻: ≥500 MΩ
  Insulation resistance: ≥500 MΩ
- ◆ 接触电阻: ≤20 mΩ
  Contact resistance: ≤20 mΩ

■ 材料 MATERIAL

- ◆ 绝缘体: 尼龙9T, UL94−V0
  Insulator: Nylon9T, UL94−V0
- ◆ 接触针: 黄铜
  Contact PIN: Brass
- ◆ 焊片: 磷铜
  Solder tab: Phosphor bronze



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